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Ontario. Legislative assembly

SESSIONAL PAPERS

VOL. LXXX.—PART IV

FOURTH SESSION

OF THE

TWENTY-SECOND LEGISLATURE

OF THE

PROVINCE OF ONTARIO

SESSION 1948

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TORONTO
Printed and Published by Baptist Johnston, Printer to the King's Most Excellent Majesty
1949

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PROVINCIAL AUDITOR'S REPORT

1946-47

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 27, 1948

ONTARIO

TORONTO
Printed and Published by Baptist Johnston
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1948

TO THE HONOURABLE RAY LAWSON, O.B.E.,
Lieutenant-Governor of the Province of Ontario

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present to Your Honour the Report of the Provincial Auditor for the year ended March 31st, 1947.

Respectfully submitted,

LESLIE M. FROST,
Treasurer

Treasury Department, Ontario
January 20th, 1948

Provincial Auditor's Office,
January 20th, 1948

To The Honourable Leslie M. Frost,
Provincial Treasurer

Sir:

I have the honour to submit, for the information of the Legislative Assembly, my report for the year ended March 31st, 1947, in accordance with the requirements of The Audit Act.

Respectfully submitted,

H. A. Cotnam, C.A.,
Provincial Auditor

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(A)

TREASURY BOARD MINUTES

(A)

TREASURY BOARD MINUTES

STATEMENT OF TREASURY BOARD MINUTES ISSUED FOR EXPENDITURES IN EXCESS OF APPROPRIATIONS, DURING THE FISCAL YEAR ENDED MARCH 31st, 1947

Department of Agriculture

	WARRANT	EXPENDED
Main Office:		
Salaries	$ 1,850.00	$ 597.12
Services and Expenses re Agricultural Work, etc.	30,000.00	29,882.75
Farm Service Force, Administration and Other Expenses	40,000.00	38,865.80
Statistics and Publications Branch:		
Salaries	2,715.00	2,711.43
Agricultural and Horticultural Societies Branch:		
Salaries	2,285.00	2,280.89
Maintenance	1,000.00	808.42
Field Crop Competitions, Prizes, etc.	1,500.00	1,316.01
Grants—to Encourage Local Plowing Matches	2,500.00	1,831.28
Live Stock Branch:		
Salaries	1,600.00	1,578.77
Educational and Demonstration Work, etc.	5,000.00	3,706.72
Women's Institute Branch:		
Salaries	19,750.00	17,774.71
Travelling Expenses	400.00	117.23
Dairy Branch:		
Salaries	1,425.00	1,417.00
Dairy Instruction and Inspection	2,500.00	2,497.69
Milk Control Board of Ontario:		
Salaries	4,390.00	4,382.51
Fruit Branch:		
Salaries	2,005.00	1,996.66
Maintenance	2,300.00	2,176.99
Fruit Work, etc., including Expenditure under The Plant Diseases Act, etc.	27,000.00	25,738.15
Agriculture Representative Branch:		
Salaries	1,665.00	1,661.59
County Offices—Agricultural Representative Work, Services, Expenses and Equipment	12,300.00	12,290.36
Crops, Seeds and Weeds Branch:		
Administration of The Weed Control Act, Crop Improvement Work, etc.	15,000.00	13,907.79
Subventions—Freight on Agricultural Lime	3,000.00	1,077.80
Co-operation and Markets Branch:		
Salaries	3,150.00	3,130.06
Kemptville Agricultural School:		
General Office—Salaries	3,050.00	2,122.78
All Divisions—Salaries, Wages, Travelling, etc., and General Expenses	1,395.00	183.74
Horticultural Experiment Station, Vineland:		
Salaries	10,165.00	7,085.59
Services, Travelling and Other Expenses	1,800.00	1,799.19
Western Ontario Experimental Farm, Ridgetown:		
Salaries	3,650.00	3,633.65
Northern Ontario Branch:		
Salaries	550.00	544.50
Ontario Veterinary College, Guelph:		
Salaries	34,700.00	34,207.29
Fuel, Light, Water, etc., and Contingencies	60,000.00	47,535.37

	WARRANT	EXPENDED
Ontario Agricultural College, Guelph:		
General Office:		
Salaries	$ 37,000.00	$ 35,533.91
Expenses	167,000.00	166,923.79
All Divisions:		
Salaries	76,000.00	71,286.22
Expenses	35,000.00	12,961.25

Department of Attorney-General

	WARRANT	EXPENDED
Main Office:		
Travelling Expenses	500.00	89.34
Unemployment Insurance Stamps	1,000.00	610.91
Grants, Conferences on Improving Laws	500.00	417.80
Office of the Legislative Counsel:		
Salaries	2,825.00	2,807.37
Maintenance	500.00	380.35
Supreme Court of Ontario:		
Judges' Staff—Salaries	2,500.00	2,322.18
Registrar's Office—Salaries	2,500.00	1,166.46
Shorthand Reporters:		
Salaries, including Allowance in Lieu of Stationery	1,500.00	373.46
Services Reporting and Travelling Expenses	3,500.00	1,499.25
Land Titles Office:		
Maintenance	2,500.00	1,954.26
Criminal Justice Accounts:		
Audit Office—Salaries	2,500.00	816.49
Counties and Cities—Administration of Justice	65,000.00	61,748.58
Districts:		
Salaries	25,000.00	15,581.47
General Administration of Justice	26,000.00	24,450.77
Magistrates:		
Salaries	12,000.00	9,380.47
Travelling Expenses and Contingencies	4,000.00	2,381.76
Public Trustee's Office:		
Salaries	300.00	272.56
Maintenance	4,000.00	1,581.70
Fire Marshal's Office:		
Salaries	125.00	100.28
Travelling Expenses	5,000.00	2,833.96
Inspector of Legal Offices:		
Inspector's Office—Travelling Expenses	800.00	79.92
Judicial Officers in Districts—Office Equipment, Forms, Stationery, etc.	1,000.00	989.83
Local Masters of Titles Offices:		
Expenses	600.00	451.16
Forms, Copying and Contingencies	4,500.00	3,622.83
Registration of Patents	100.00	92.00
Law Enforcement Branch:		
Salaries	49,200.00	48,390.45
Travelling Expenses	42,000.00	32,243.65
Maintenance	36,000.00	35,646.48
Ontaro Securities Commission:		
Salaries	6,400.00	5,340.89
Maintenance	4,000.00	3,919.79

Department of Education

	WARRANT	EXPENDED
Main Office:		
Salaries	20,000.00	17,924.89
Maintenance	8,000.00	5,142.35
Public Records and Archives Branch:		
Salaries	1,300.00	1,115.20
Public and Separate Schools Branch:		
Salaries	1,500.00	811.83
Inspection of Public and Separate Schools in Counties and Districts—Salaries	25,000.00	22,957.74
Travelling and Moving Expenses of Inspectors, etc.	15,000.00	2,486.22
Correspondence Courses—Salaries and Maintenance	9,500.00	6,813.29

	WARRANT	EXPENDED
Public and Separate Schools Branch (Cont'd):		
Courses by Itinerant Teachers, School Cars, etc.	$ 1,000.00	$ 953.05
Visual and Radio Education	7,000.00	3,611.45
Departmental Examinations Branch:		
Salaries	14,000.00	11,987.50
Maintenance	5,000.00	4,190.93
Services and Travelling Expenses	12,000.00	11,898.08
Assistants in connection with Departmental Examinations	10,000.00	7,926.96
Training Schools Branch:		
Travelling Expenses of Normal School Students and Masters to Rural Public and Separate Schools, etc.	4,000.00	3,705.61
Normal Schools:		
London—Travelling Expenses	100.00	54.52
Hamilton—Salaries	3,500.00	2,722.10
Stratford—Salaries	2,800.00	1,534.66
North Bay—Salaries	2,500.00	1,568.55
University of Ottawa—Salaries	1,200.00	977.34
High Schools and Collegiate Institutes Branch:		
Salaries	6,800.00	6,389.32
Travelling and Moving Expenses	1,000.00	595.69
Physical and Health Education, etc.:		
Physical and Health Education	4,000.00	919.40
Summer Camps—Services and Maintenance	5,000.00	4,597.10
Public Libraries Branch:		
Salaries	2,500.00	1,933.50
Vocational Education Branch:		
Salaries	12,000.00	10,186.94
Travelling and Moving Expenses	3,500.00	2,814.49
Maintenance	2,000.00	739.02
Trade Schools—Salaries, etc.	1,000.00	94.04
Ontario Training College for Technical Teachers:		
Maintenance	6,000.00	4,682.98
Legislative Grants:		
Secondary School Education	500,000.00	499,641.86
Miscellaneous Grants:		
Trustees' Section, Ontario Educational Association	2,000.00	2,000.00
Provincial and Other Universities, etc.:		
Grants:		
University of Toronto, Ontario College of Education—for the Training of High School Assistants, etc.	37,500.00	37,500.00
University of Toronto—Special Grant	1,075,000.00	1,075,000.00
Royal Ontario Museum	36,650.00	36,650.00
Ontario School for the Deaf, Belleville:		
Salaries	32,500.00	32,445.25
Maintenance	13,000.00	12,986.02
Ontario School for the Blind, Brantford:		
Salaries	20,500.00	19,885.62

Department of Game and Fisheries

Main Office:		
Salaries	10,000.00	7,593.37
Travelling Expenses	5,000.00	3,563.94
Maintenance	10,000.00	9,329.80
Enforcement of The Game and Fisheries Act	200,000.00	151,263.72
Game Animals and Birds—Services and Expenses	15,000.00	10,471.25
Macdiarmid—Services, Expenses, Repairs, etc.	2,000.00	1,275.80
Biological and Fish Culture Branch:		
Salaries	10,000.00	2,664.14
Travelling Expenses	3,000.00	2,318.65
Maintenance	6,000.00	4,400.63
Hatcheries—Services, Maintenance and Operation	76,000.00	54,060.86
Wolf Bounty	5,000.00	4,275.18

Department of Health

Main Office:		
Salaries	16,260.00	13,873.61
Cancer Control—Services, Expenses, etc., and Operation of Radium Emanation Plant	3,000.00	2,858.40

	WARRANT	EXPENDED
Dental Service Branch:		
Grants for School Dental Services	$ 4,900.00	$ 3,764.62
Inspection of Nursing Service Branch:		
Salaries	2,552.89	2,004.18
Services, Examination Board	175.00	170.50
Epidemiological Branch:		
Outbreaks of Diseases, etc	115,600.00	115,583.04
Venereal Diseases Control Branch:		
Maintenance, Services and Expenses, Treatment of Patients in Hospitals and Venereal Disease Clinics	26,500.00	26,447.19
Tuberculosis Prevention Branch:		
Salaries	5,161.87	5,140.71
Travelling Expenses	1,600.00	1,599.97
Maintenance	71,500.00	71,484.24
Ottawa Clinic—Salaries	893.75	832.87
Belleville Clinic:		
Salaries	1,300.00	1,142.54
Maintenance	3,100.00	3,023.28
North Bay Clinic:		
Salaries	382.62	312.63
Maintenance	700.00	653.09
Timmins Clinic—Salaries	150.00	102.48
Fort William Clinic—Salaries	276.64	233.48
Industrial Hygiene Branch:		
Salaries	2,754.41	2,304.95
Travelling Expenses	3,800.00	3,538.90
Maintenance	6,800.00	6,799.88
Sanitary Engineering Branch:		
Maintenance	300.00	293.37
Laboratory Branch—Central Laboratory:		
Salaries	21,300.00	19,156.58
Maintenance	6,300.00	4,974.80
Regional Laboratories:		
Ottawa—Salaries	600.00	27.33
Fort William—Maintenance	500.00	458.91
Kingston—Salaries	3,000.00	2,203.55
North Bay:		
Salaries	2,274.72	2,124.08
Maintenance	800.00	779.41
Sault Ste. Marie—Salaries	584.85	309.40
Windsor—Travelling Expenses	200.00	53.52
Hospitals Branch:		
Ontario Hospitals Division—General Expenses:		
Salaries	7,700.00	5,343.18
Compensation for Injured Workmen	3,000.00	2,224.80
Unemployment Insurance Stamps	1,000.00	997.80
Printing and Stationery	7,500.00	7,493.34
Ontario Hospitals:		
Brockville—Salaries	29,500.00	27,796.10
Cobourg—Salaries	6,700.00	6,419.92
Fort William—Salaries	7,357.37	6,328.96
Fort William—Port Arthur Unit—Salaries	6,370.00	3,187.89
Hamilton:		
Salaries	29,000.00	27,755.30
Maintenance	35,000.00	34,077.87
Kingston—Salaries	58,000.00	56,554.69
Langstaff:		
Salaries	40,100.00	38,609.91
Maintenance	6,000.00	5,774.75
Langstaff—Concord Unit—Salaries	679.85	591.87
London:		
Salaries	58,500.00	47,115.99
Maintenance	38,000.00	37,066.52
New Toronto:		
Salaries	11,500.00	4,656.09
Maintenance	44,000.00	43,123.18
Orillia Hospital School—Salaries	89,000.00	84,430.57
Penetanguishene:		
Salaries	47,700.00	46,128.97
Maintenance	13,000.00	12,997.10

	WARRANT	EXPENDED
Hospitals Branch (Cont'd):		
Ontario Hospitals (Cont'd):		
St. Thomas:		
Salaries	$ 101,000.00	$ 98,199.24
Maintenance	120,000.00	119,770.96
Toronto:		
Salaries	30,000.00	27,094.72
Maintenance	6,200.00	6,088.07
Whitby—Salaries	17,000.00	15,127.65
Woodstock:		
Salaries	100,650.00	99,964.97
Maintenance	23,000.00	22,935.64
Toronto Psychiatric:		
Salaries	26,300.00	25,143.98
Maintenance	2,000.00	1,967.37

Department of Highways

Main Office:		
Unemployment Insurance Stamps	3,000.00	1,970.60
Salaries:		
Motor Vehicles Branch	7,000.00	4,179.39

Department of Insurance

Main Office:		
Salaries	7,500.00	6,165.25
Maintenance	3,500.00	3,428.12
Printing Annual Reports, etc.	500.00	350.30

Department of Labour

Main Office:		
Salaries	500.00	366.61
Advertising, Educational Work, etc.	1,000.00	350.21
Grants—Miscellaneous	700.00	500.00
Industry and Labour Board:		
Salaries	2,500.00	2,302.13
Bank Commissions—Charges for Cashing Vacation Pay Stamps	3,000.00	2,726.89
Apprenticeship Branch:		
Salaries	6,850.00	5,486.63
Maintenance	2,000.00	1,999.45
Boiler Inspection Branch:		
Salaries	9,700.00	9,181.32
Travelling Expenses	3,000.00	1,285.31
Factory Inspection Branch:		
Salaries	1,700.00	1,571.44
Board of Examiners of Operating Engineers:		
Salaries	4,000.00	3,522.55
Maintenance	1,000.00	490.14
Minimum Wage Branch:		
Travelling Expenses	200.00	47.15
Composite Inspection Branch:		
Salaries	11,000.00	10,679.56
Maintenance	1,000.00	908.09
Labour Relations Board:		
Maintenance	5,000.00	3,822.40

Department of Lands and Forests

Main Office:		
Salaries	32,000.00	28,814.29
Maintenance and Operating	20,000.00	18,199.80
Compensation for Injured Workmen	8,000.00	7,140.73
Field Services:		
Forest Research Branch:		
Travelling Expenses	2,000.00	152.29
Maintenance and Operating	85,000.00	67,710.54

	WARRANT	EXPENDED
Field Services (Cont'd):		
Basic Organization—District Offices (including Provincial Parks, etc.)—Maintenance and Operating	$ 525,000.00	$ 511,751.97
Extra Fire Fighting:		
Salaries	130,000.00	115,201.34
Travelling Expenses	5,000.00	3,367.17
Maintenance and Operating	70,000.00	58,222.82
Scaling:		
Salaries	175,000.00	173,519.19
Travelling Expenses	11,500.00	9,288.82
Maintenance and Operating	14,000.00	11,592.19
Air Service Branch:		
Salaries	25,000.00	21,771.58
Travelling Expenses	2,000.00	1,149.17
Maintenance and Operating	165,000.00	139,279.28
Reforestation Branch:		
Salaries	43,000.00	38,298.24
Travelling Expenses	6,000.00	2,539.14
Maintenance and Operating	20,000.00	15,662.90

Department of Legislation

Office of the Speaker:		
Salaries	4,000.00	3,059.42
Indemnities—Members, including Mileage	92,000.00	91,809.30
Stationery, including Printing Paper, etc	10,500.00	9,199.09
Maintenance	14,000.00	11,890.94
Office of Crown-in-Chancery:		
Salaries	300.00	159.24

Lieutenant-Governor's Office

Salaries	700.00	698.66

Department of Mines

Main Office:		
Salaries	9,000.00	8,531.21
Mines Inspection Branch:		
Salaries, Equipment and Expenses	12,000.00	8,881.65
Natural Gas Commissioner's Branch:		
Salaries, Equipment and Expenses, etc	1,600.00	1,013.16
Sulphur Fumes Arbitrator:		
Salary, Travelling and Other Expenses	700.00	445.42
Office of Mining Recorders:		
Salaries and Expenses	6,500.00	6,495.79
Lignite Development:		
Salaries, Maintenance and Operating	22,500.00	13,191.69

Department of Municipal Affairs

Main Office:		
Unemployment Insurance Stamps	1,150.00	378.13
Ontario Municipal Board:		
Salaries	2,000.00	1,755.16
Maintenance	1,000.00	506.55
Registrar-General's Branch:		
Salaries	15,100.00	15,067.73

Department of Planning and Development

Main Office:		
Salaries	5,000.00	4,460.48
Planning and Investigation for Conservation, Restoration and Development of Natural Resources, etc	10,000.00	9,966.42

Department of the Prime Minister

Main Office:		
Maintenance	1,000.00	712.94

Provincial Auditor's Office

	WARRANT	EXPENDED
Travelling Expenses	$ 2,000.00	$ 1,186.52

Department of Provincial Secretary

Main Office:		
Salaries	26,000.00	22,569.13
Maintenance	30,000.00	17,241.65
Royal Commission to Inquire into All Aspects of Reforestation, Forest Control, etc	111.000.00	108,626.17
Office of Executive Council:		
Salaries	1,455.00	1,452.20
Maintenance	470.00	267.50
Office of Civil Service Commissioner:		
Salaries	4,150.00	4,132.91
Maintenance	2,500.00	2,161.36

Department of Provincial Treasurer

Main Office:		
Dominion–Provincial Conference (1945)	1,500.00	927.18
Bureau of Statistics and Research:		
Travelling Expenses	200.00	197.23
Maintenance	100.00	92.73
Motion Picture Censorship and Theatre Inspection:		
Salaries	3,200.00	2,723.52
Controller of Revenue:		
Salaries	56,000.00	52,517.40
Travelling Expenses	5,500.00	3,914.06
Maintenance	500.00	458.98
Fees	8,500.00	6,123.05
Post Office:		
Salaries	6,800.00	5,194.22
Maintenance	25,000.00	17,409.57
King's Printer:		
Salaries	2,000.00	1,879.64
Cartage	100.00	96.91
Official Gazette	4,000.00	1,493.26

Department of Public Welfare

Main Office:		
Maintenance of Indigents	1,831.40	1,831.40
Grants—Memorial Wreaths	341.00	341.00
Children's Aid Branch:		
Salaries	3,600.00	3,386.25
Travelling Expenses	500.00	364.93
Mothers' Allowances Commission:		
Salaries	9,000.00	8,136.44
Old Age Pensions Commission:		
Salaries	32,900.00	32,871.07
Pensions—Old Age and Blind	515,900.00	389,471.97
Medical Services	22,900.00	20,378.60
Special Provincial Bonus	22,300.00	14,294.73

Department of Public Works

Main Office:		
Travelling Expenses	3,000.00	1,602.41
Maintenance	2,500.00	2,399.21
Unemployment Insurance Stamps	2,000.00	1,412.98
Public Buildings—Maintenance and Repairs:		
General Superintendence:		
Services, Travelling and Other Expenses	2,000.00	1,321.92
Lieutenant-Governor's Apartment:		
Salaries	500.00	255.98

	WARRANT	EXPENDED
Public Buildings—Maintenance and Repairs (Cont'd):		
Legislative and Departmental Buildings:		
Administrative Services:		
Salaries	$7,000.00	$5,513.11
Telephone Service	6,000.00	5,108.00
Typewriter Inspection and Repairs	2,500.00	2,342.92
Maintenance Staff:		
Salaries	35,000.00	24,824.52
Maintenance	32,000.00	31,886.58
Osgoode Hall:		
Salaries	4,000.00	2,652.57
Maintenance	5,600.00	4,710.56
Miscellaneous:		
Moving Patients, etc., of Provincial Institutions Leased to Dominion Government, etc.	40,000.00	24,949.94
Department of Reform Institutions		
Main Office:		
Salaries	13,000.00	12,642.11
Travelling Expenses	7,000.00	6,329.49
Maintenance	3,600.00	3,581.34
Unemployment Insurance Stamps	500.00	81.91
Grants—Training Schools	10,000.00	9,390.50
Board of Parole:		
Salaries	2,500.00	1,635.25
Expenses of Returning to Prison, Parole and Permit Violators.	100.00	7.75
Travelling Expenses	500.00	160.55
Maintenance	1,000.00	695.42
Ontario Reformatories:		
Guelph:		
Salaries	80,000.00	75,809.54
Maintenance	28,000.00	27,087.31
Repairs to Buildings, etc.	6,500.00	6,272.23
Industries	196,000.00	189,665.36
Mimico:		
Salaries	25,000.00	21,469.49
Maintenance	24,000.00	23,967.40
Repairs to Buildings, etc.	5,000.00	4,572.02
Mercer, Toronto:		
Salaries	13,000.00	11,741.00
Maintenance	6,000.00	5,986.60
Repairs to Buildings, etc.	500.00	57.94
Industries	50,000.00	49,957.85
Industrial Farm, Burwash:		
Salaries	73,000.00	70,548.73
Maintenance	100,000.00	96,651.34
Repairs to Buildings, etc.	49,000.00	45,103.84
Industries	8,000.00	7,767.79
Ontario Training School for Boys, Bowmanville:		
Salaries	14,000.00	12,326.52
Maintenance	34,000.00	33,263.62
Ontario Training School for Girls, Cobourg:		
Salaries	3,000.00	2,523.64
Maintenance	6,000.00	719.88
Repairs to Buildings, etc.	1,500.00	594.72
Department of Travel and Publicity		
Main Office:		
Salaries, Travelling Expenses, Cost of Services and other Expenditures in connection with the Development and Promotion of the Tourist Industry in Ontario, etc.	2,500.00	2,499.38
Miscellaneous		
Miscellaneous Refunds	175,000.00	112,019.50
Total Treasury Board Minutes	$8,038,116.37	$7,272,061.46

(B)

SPECIAL WARRANTS

(B)

SPECIAL WARRANTS

STATEMENT OF SPECIAL WARRANTS ISSUED DURING THE FISCAL YEAR ENDED MARCH 31st, 1947

Date of Warrant	Service	Warrant	Expended 1946-47	Un-expended
		$ c.	$ c.	$ c.
	Department of Agriculture			
	Payment of Expenses incurred in connection with the Royal Commission on Milk, established by Order-in-Council of the 1st day of October, 1946.			
Nov. 28, 1946	Warrant.................$10,000.00			
Mar. 5, 1947	Warrant................. 10,000.00	20,000.00	19,927.31	72.69
	Incorporated Canadian Racing Associations for the purpose of assisting and encouraging Canadian Breeders of Racing and Saddle Horses.			
Dec. 5, 1946	Warrant.................	24,000.00	24,000.00	....
	Department of Attorney-General			
	Payment to the City of Niagara Falls re cost of policing and directing traffic in the vicinity of the Rainbow Bridge as provided for in the agreement for the year 1946.			
July 16, 1946	Warrant.................	10,000.00	10,000.00	....
	Department of Education			
	Payment to Teachers completing Normal Training Course for Teachers of the Deaf.			
June 4, 1946	Warrant.................	200.00	200.00	....
	Elementary School Building at U.S.S. No. 9, 10, 14, Harvey, Burleigh and Smith—services, materials and expenses for construction and equipment.			
July 4, 1946	Warrant.................	16,000.00	18.45	15,981.55
	Music Education, Concert Tours—services, travelling and other expenses.			
Aug. 29, 1946	Warrant.................	8,000.00	7,209.27	790.73
	For the Training of Certified Nursing Assistants in three central centres.			
Aug. 29, 1946	Warrant.................	50,000.00	31,459.29	18,540.71
	Department of Health			
	Grant to the East Windsor Hospital at Windsor, Ont.			
May 28, 1946	Warrant.................	10,000.00	10,000.00	....

Date of Warrant	Service	Warrant	Expended 1946-47	Un-expended
		$ c.	$ c.	$ c.
	Grant to Queen's University, Kingston, to be distributed by the University as follows: Kingston General Hospital, $75,000.00; Hotel Dieu Hospital, Kingston, $37,500.00, for the purpose of improving Teaching Facilities as required by the University in each of the said hospitals.			
Aug. 29, 1946	Warrant	112,500.00	112,500.00	....
	For the Training of Certified Nursing Assistants in three central centres.			
Aug. 29, 1946	Warrant	50,000.00	31,560.15	18,439.85
	Department of the Prime Minister			
	Purchase of Amenities and other Requisites for the Ship and Crew of H.M.C.S. "Ontario," which has been adopted by the Province of Ontario and commissioned in Great Britain for service in the war against Japan.			
	Balance unexpended, 1945-46	1,548.35	915.18	633.17
	Department of Provincial Secretary			
	Scholarships as recommended by the Ontario Research Commission, appointed by Order-in-Council dated the 28th day of August, 1945.			
July 9, 1946	Warrant	20,000.00	10,000.00	10,000.00
	Grant to Empire Information Limited, re Ontario issue of "Empire Digest."			
July 9, 1946	Warrant	500.00	500.00	....
	Special Grants re Research Projects: Queen's University—Lake Opinicon Biological Laboratory, $7,500.00; University of Western Ontario—Lake Erie Fisheries Study, $1,640.00; McMaster University—Ecology of Hamilton Bay and Dundas Marshes, $2,000.00, as recommended by the Ontario Research Commission, appointed by Order-in-Council dated the 28th day of August, 1945.			
July 9, 1946	Warrant	11,140.00	9,140.00	2,000.00
	Honoraria for Services of the Committee for Recommendations for a Revision of the Classification of the Ontario Public Service, under the auspices of the Joint Advisory Council.			
Sept. 3, 1946	Warrant	1,300.00	1,300.00	....
	Purchase of a supply of a specially designed Gold Pin or Button, signifying twenty-five years' continuous employment in the Ontario Public Service, for presentation by the Government to			

DATE OF WARRANT	SERVICE	WARRANT	EXPENDED 1946–47	UN-EXPENDED
		$ c.	$ c.	$ c.
	present and future members of the Quarter Century Club.			
Sept 24, 1946	Warrant..............................$ 2,000.00			
Nov. 28, 1946	Warrant.............................. 1,110.00	3,110.00	3,110.00	....
	Government Hospitality Fund.			
Oct. 8, 1946	Warrant..	5,000.00	104.83	4,895.17
	Department of Provincial Treasurer			
	Grant to The Ontario Society for the Prevention of Cruelty to Animals.			
June 25, 1946	Warrant..	1,000.00	1,000.00	....
	Department of Reform Institutions			
	Payment of Salaries, Merchandise, Services and Other Items necessary for the operation of the Ontario Reformatory at Brampton.			
Jan. 30, 1947	Warrant..	60,000.00	45,264.19	14,735.81
	Total Special Warrants	404,298.35	318,208.67	86,089.68

REPORT FOR 1947

— OF —

The Workmen's Compensation Board
ONTARIO

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
Sessional No. 28, 1948

ONTARIO

TORONTO
Printed and Published by Baptist Johnston, Printer to the
King's Most Excellent Majesty.
1948

TO THE HONOURABLE

THE LIEUTENANT-GOVERNOR OF THE PROVINCE OF ONTARIO

MAY IT PLEASE YOUR HONOUR:

The undersigned begs leave respectfully to present to Your Honour the annual report of the Workmen's Compensation Board for the year 1947.

CHARLES DALEY,
Minister of Labour.

February 27th, 1948

THE WORKMEN'S COMPENSATION BOARD

DR. D. J. GALBRAITH,
Vice-Chairman

JOHN F. CAULEY,
Commissioner

S. R. JOHNSTON,
Secretary

Since the last report, the Board has suffered the loss of William Morrison, B.A., K.C., late Chairman, who died March 16th, 1947.

Mr. Morrison was an able administrator and as such was recognized by both Labour and Industry. The experience gained in his many years in public life and his wide knowledge of human affairs were most helpful and were combined with the ability to quickly grasp the essentials of any problem coming under his consideration. He gave leadership to whatever he undertook and his services were rendered with the enthusiasm of one who strongly supported all worthwhile social measures.

Mr. Morrison had led a most full and active life. He was a graduate of the University of Toronto in chemistry and of Osgoode Hall, Toronto, in law. He served on the Municipal Council of Hamilton for many years as Alderman and Controller, closing his career in Municipal politics as Mayor of Hamilton for eight consecutive years, retiring undefeated in 1943. He was also twice elected as member of the Legislative Assembly of Ontario. In 1929 he was made King's Counsel, and was appointed Chairman of the Board as of January 1st, 1944.

REPORT FOR 1947
OF
The Workmen's Compensation Board
ONTARIO

Offices:

4th Floor, Canada Life Building,
330 University Ave., Toronto.

TO HIS HONOUR THE LIEUTENANT-GOVERNOR:

The Workmen's Compensation Board begs to submit its Report for the year 1947.

GENERAL REVIEW

The year shows an increase of payroll, accidents reported, and compensation awarded, each item reaching an all-time high peak. The payroll covered increased 3.77 per cent., the accidents reported 21.79 per cent., and the benefits awarded 7.63 per cent. over corresponding figures for 1946.

Payroll in Schedule 1

The payroll in Schedule 1 was $1,344,233,600. in 1947, as compared with $1,295,440,500. in 1946.

Accidents Reported

Accidents reported increased from 138,570 in 1946 to 168,767 in 1947.

Benefits Awarded

During 1947 the benefits (compensation, medical aid, rehabilitation, etc.) amounted to $17,760,743.39, as compared with $16,502,023.89 awarded during 1946.

Schedule 1 Assessments

The average rate of assessment was $1.18 per $100. of payroll and there were few changes in the rates charged to employers. At the end of 1947 there were 39,452 employers under Schedule 1, as compared with 35,296 at the end of 1946.

Assessments paid for 1947 amounted to $15,818,038.29 and it is estimated that a further $2,350,000.00 will be received. The total assessment for 1947, on a provisional basis, is therefore $18,168,038.29. There was $73,443.59 received as refunds from various sources and from application of sections by way of penalties and other sources of income. The total receipts for the year (actual and estimated) were $18,241,481.88.

Schedule 1 Benefits and Charges

The compensation and medical aid for Schedule 1 industries, including estimates for what is still to be awarded for accidents happening during the year, amounted to $16,340,868.59. There were other outlays of $1,811,177.46, being $764,231.55 charged for administration expenses (including $47.50 debit adjustment of prior years' expenses), $230,003.90 for other expenses of non-administrative character, $98,933.17 for mine rescue work, $387,885.92 grants to accident prevention associations organized under the Act $80.456.82 for the Board's clinic, $212,770.40 for the Board's Convalescent Centre, $17,210.93 for special treatment for paraplegics, $16,752.25 for the special arrangements with the Toronto General and Western Hospitals and $2,932.52 for outlays under Section 8 of the Act. The total expenditures and charges for the year were $18,152,046.05.

Schedule 2 and Crown Industries

Schedule 2 industries are those in which the employer is individually liable for accidents to his workmen. Dominion Crown cases under the Act by Dominion legislation, and Provincial Crown cases which are now under the Act, are included.

The total amount awarded in Schedule 2 industries and Crown cases was $2,613,175.28, as compared with $2,345,197.61 during 1946. Of this $2,613,175.28, $1,000,031.40 was for Dominion Crown cases and $139,541.12 was for Provincial Crown cases.

Administration Expenses

The gross expenses of the Board were $1,158,484.31, of which $230,003.90 was for non-administrative services, that is those services which, mainly medical and investigatory, are in the nature of benefits rather than administrative. The gross administration expenses are therefore $928,480.41, of which $764,184.05 has been charged to Schedule 1 and constitutes 5.04 per cent. of the benefits awarded in Schedule 1.

The Accident Fund

The Accident Fund is comprised of Schedule 1 funds, and includes Current Funds out of which temporary payments of compensation, medical aid, administration expenses, clinic and special hospital items are paid, the Silicosis Account, Pension Fund, Disaster Reserve, Second Injury Fund, Compensation Deferred, Investment Reserve, Contingent Reserve, and Operating Reserve, as well as funds to complete claims (including pneumoconiosis claims) for which final settlement has not been made.

The total amount held unexpended or due is $67,836,237.72 and is comprised of investments of $64,632,264.70, $750,490.77 cash in banks, and $2,453,482.25 receivable (including $2,350,000.00 adjustments on 1947 assessments).

Pension Fund

The purpose of the Pension Fund is to take care of future payments of pensions which have already been awarded. Actuarial tables, embodying the contingencies of death and remarriage, have been compiled to show, for each age and kind of pension, the average amount (sometimes referred to as capitalized value) necessary to complete pension payments. The present tables are on a 2¾ per cent. interest basis, necessitated by the decrease in current investment yields. When a pension is awarded this average amount is transferred from the Current Funds to the Pension Fund, and all payments of pensions are made therefrom. Since the amount transferred in any one instance is the average amount required, no re-transfer is made should a residue be left at the expiry of the pension, nor is any additional transfer made should the amount be exhausted before expiry of the pension.

The balance in the fund at the commencement of 1947 was $42,438,784.15. During the year $6,812,334.58 was transferred to the fund for pension awards, $2,203,563.70 was added in interest and $4,041,683.75 was paid for pensions The balance in the fund at the end of the year was $47,412,998.68.

Disaster Reserve

The Disaster Reserve is a fund set aside under the provisions of Section 101 (2), of the Act to meet any unforeseen disaster or other circumstance which might unduly burden the employers in any class of industry. The amount held for this purpose at December 31, 1947 was $909,997.41.

Second Injury Fund

The Second Injury Fund has been established to equalize the burden of added loss from second injuries. The amount held in this fund, December 31, 1947, was $173,036.14.

Investment Reserve

The Investment Reserve is made up of excess over book values when investments are sold, and of interest received but not allocated to deferred obligations; it is the nature of a security reserve to protect the accident fund in the case of default on bond or interest payments and to guard against loss by reason of falling interest rates. The Reserve, December 31, 1947, amounted to $1,209,907.98.

Reserve for Compensation Deferred

The funds under "Compensation Deferred" comprise compensation moneys held for claimants, payment being deferred to a future time by reason of the claimant being a minor or for other reason. The amount so held as at December 31, 1947 was $228,602.26.

Silicosis Account

This reserve is to pay claims for silicosis in Class 5 which have been made but in which payments have not been made in full. The amount so held as at December 31, 1947, was $2,380,257.63.

Estimated Reserve to Complete Claims

An estimate was made at the end of the year of the amount necessary to bring all continuing, unreported and unadjusted claims to finality. The total amount was $10,470,990.48, of which $1,570,507.93 was specifically for pneumoconiosis claims previously reported.

Operating and Contingent Reserves

At the end of 1947 the board held $5,050,447.14 for unforeseen contingencies in the payment of claims delayed by unusual circumstances and also to provide for current cash expenditures as assessments are not immediately payable at the beginning of a year.

From Commencement of Act

From January 1, 1915 when the Act first went into effect there have been 2,382,963 accidents reported to the Board and $234,101,032.88 awarded as benefits.

Dated at Toronto this 27th day of February, 1948.

D. J. GALBRAITH, Vice-Chairman

J. F. CAULEY, Commissioner.

STATEMENT OF RECEIPTS AND PAYMENTS DURING 1947

Schedule 1

RECEIPTS

Cash in Banks 1st January, 1947:		
Canadian Bank of Commerce	$ 19,809.61	
Royal Bank of Canada	55,379.93	
		$ 75,189.54
Net Assessments, Penalties, Etc:		
Gross Assessments	$18,408,041.22	
Under Section 8	32,375.17	
Under Section 96	2,135.00	
Under Section 107	4,557.53	
Under Section 114	314.50	
From Department of Veterans Affairs	34,625.23	
From Accident Cost Refunds	1,594.52	
From Province of Ont. for Blind Workmen	156.28	
	$18,483,799.45	
Less:		
Assessments and Penalties Refunded	71,744.96	
		18,412,054.49
Silicosis Assessments		444,062.01
Interest:		
Investment	$ 2,215,262.63	
Less: Interest on Bank Overdraft	7,385.52	
		2,207,877.11
Investments:		
Principal Returned		561,079.95
From Schedule 2 and Crown Employers:		
For Administration Expenses, account of prior year, paid out of Schedule 1 in 1946		71,524.50
		$21,771,787.60

PAYMENTS

Bank Overdraft—1st January, 1947: Dominion Bank		$930,104.95
Compensation other than Pensions and Deferred Compensation		5,340,700.63
Pensions		4,041,683.75
Deferred Compensation		157,223.13
Rehabilitation		5.040.77
Medical Aid		2.704,355.73
Silicosis:		
Compensation	$ 97,324.27	
Medical Aid	30,915.43	
Rehabilitation	161.70	
Expenses	94,566.00	
		222,967.40
Under Section 8		2,932.52
Mine Rescue Work		94,222.07
Administration and other expenses		1,174,183.46
Safety Associations		369,415.16
Clinic Expenses		76,420.25
Special Hospitalization:		
(Toronto General Hospital	$112,360.00	
Toronto Western Hospital)	12,200.00	
	$124,560.00	
Less: Amounts Transferred from Medical Aid and other Accounts	114,035.75	
		10,524.25
Malton Convalescent Centre		202,354.19
		$15,332,128.26
Investments:		
Securities for permanent investment		5,689,168.57
Cash in Banks, 31st December 1947:		
Canadian Bank of Commerce	$ 31,327.46	
Royal Bank of Canada	63,696.18	
Dominion Bank	655,467.13	
		750,490.77
		$21,771,787.60

STATEMENT OF RECEIPTS AND PAYMENTS DURING 1947

Schedule 2

RECEIPTS		
Cash in Bank 1st January, 1947:		
Imperial Bank of Canada		$ 194,374.06
Employers' Deposits under Section 28		511,850.80
Employers' Deposits under Section 32		1,820,406.23
Employers' Deposits for Claimants' Moneys		11,398.93
Interest:		
Investments	$163,604.06	
Bank Deposits	523.56	
		164,127.62
Investments:		
Principal Returned		73,715.54
		$2,775,873.18

PAYMENTS		
Claimants out of Deposits under Section 28		$ 411,518.46
Deposits returned to Employers under Section 28		27,755.09
Claimants out of Claimants' Moneys		12,376.03
Paid out of Deposits under Section 32:		
Compensation	$1,487,264.95	
Medical Aid	346,090.97	
		1,833,355.92
Deposits Returned to Employers under Section 32		13,455.00
Investments:		
Securities for permanent investment		334,239.21
Cash in Bank — 31st December, 1947		
Imperial Bank of Canada		143,173.47
		$2,775,873.18

(This is the statement referred to in the Auditor's Certificate).

STATEMENT OF RECEIPTS AND PAYMENTS

From April 1, 1947 to December 31, 1947

SUPERANNUATION FUND

RECEIPTS	
Cash received from the Trustees of the Staff Pension Fund	$ 21,066.90
Contributed by the Board for prior services	24,391.42
Contributed by the Board and Staff for current services	90,741.81
Interest on Investments and Bank Deposits	15,210.75
	$151,410.88

PAYMENTS	
Pensions Paid	$ 5,170.81
Contributions Refunded	9,149.04
Investments:	
Securities for Permanent Investment	105,693.68
Cash in Bank — 31st December, 1947	
Canadian Bank of Commerce	31,397.35
	$151,410.88

Note: Securities having an amortized value of $516,722.47 were received from the Trustees of the Staff Pension Fund.

NUMBER OF FIRMS IN SCHEDULE 1, BY CLASSES AND GROUPS, DECEMBER 31, 1947

Class	Group 0	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8	Group 9	Totals
1	1,118	663		101							1,882
2	71		17								88
3	436										436
4	383		340								723
5		239	7	120							366
6	181		5	126	72	101	205				690
7	15			9							24
8	152		33	128							313
9	17	15			176	19					227
10	1,391						545				1,936
11	86	4,918		1							5,005
12	39	307	143	17	332	4					842
13	552	60									612
14	156										156
15	818	1,001		194	58	188	25				2,284
16	47	219		68							334
17	169	200									369
18	1,023	312									1,335
19	280	762									1,042
20	2,186	1,083									3,269
21	224	95									319
22	504	320	685	1,847							3,356
23	96	33	243								372
24	5,625				2,364	1,254				420	9,663
25	173	1,204	940	159	1,333						3,809

ALL.. 39,452

ESTIMATE OF WAGE EXPENDITURE, SCHEDULE 1 BY CLASSES, FOR 1947

Class	Wage Expenditure
1	$ 34,380,900.
2	76,475,600.
3	21,575,700.
4	22,211,500.
5	57,636,700.
6	21,061,700.
7	41,286,100.
8	27,438,900
9	37,158,400.
10	171,653,700.
11	129,408,500.
12	61,678,900.
13	13,583,100.
14	15,470,400
15	88,694,300.
16	56,348,900.
17	50,563,300.
18	52,399,600.
19	58,549,200.
20	34,180,300.
21	12,139,300.
22	71,835,200
23	6,294,800
24	93,012,100
25	89,196,500.
TOTAL	$1,344,233,600.

STATEMENT FOR SCHEDULE 2 DURING 1947

SCHEDULE 2 AWARDS

	Awards Not Pensions	Pensions	TOTALS
Municipal Corporations, etc.	$ 334,662.45	$ 236,030.90	$ 570,693.35
Steam Railroads	268,289.17	403,617.50	671,906.67
Electric Railways	10,354.31	2,304.00	12,658.31
Navigation Companies	84,904.74	84,403.00	169,307.74
Express and Sleeping Car Companies	9,196.27		9,196.27
Telephone and Telegraph Companies	14,084.32	20,376.00	34,460.32
All other industries	1,071.10	4,309.00	5,380.10
Dominion Crown Cases	597,008.65	403,022.75	1,000,031.40
Provincial Crown Cases	73,074.89	66,466.23	139,541.12
TOTALS	$ 1,392,645.90	$ 1,220,529.38	$ 2,613,175.28

SCHEDULE 2 FUNDS

Deposits under Section 28

Cash in bank and invested, Jan. 1, 1947	$ 3,943,320.76	
Deposits received from Employers	511,850.80	
Interest received	162,226.36	
Paid to Pensioners		411,518.46
Deposits returned to Employers		27,755.09
Cash in bank and invested, Dec. 31, 1947		4,178,124.37
	$ 4,617,397.92	$ 4,617,397.92

Claimants' Moneys

Cash in bank and invested, Jan. 1, 1947	$ 16,974.25	
Deposits received from Employers	11,398.93	
Interest received	511.45	
Paid to Claimants		12,376.03
Cash in bank and invested, Dec. 31, 1947		16,508.60
	$ 28,884.63	28,884.63

Deposits under Section 32

Cash in bank, Jan. 1, 1947	$ 114,977.64	
Deposits received from Employers	1,820,406.23	
Payments made—Compensation and Medical Aid		1,833,355.92
Deposits returned to Employers		13,455.00
Cash in bank, Dec. 31, 1947		88,572.95
	$ 1,935,383.87	$ 1,935,383.87

Investment Reserve

Cash in bank and invested, Jan. 1, 1947	$ 214,675.83	
Undistributed interest earned in 1947	1,389.81	
Cash in bank and invested, Dec. 31, 1947		216,065.64
	$ 216,065.64	$ 216,065.64

TOTAL OF FUNDS

Cash in bank and invested, Jan. 1, 1947	$ 4,289,948.48	
Deposits received from Employers	2,343,655.96	
Interest received	164,127.62	
Payments made		2,257,250.41
Deposits returned to Employers		41,210.09
Cash in bank and invested, Dec. 31, 1947		4,499,271.56
	$ 6,797,732.06	$ 6,797,732.06

PAYMENTS TO SAFETY OR ACCIDENT PREVENTION ASSOCIATIONS, 1947

Association	Class	Total Payments	
Lumbermen's Safety Association	1	$ 51,830.00	
Ontario Pulp and Paper Makers' Safety Association	2	14,870.16	
Class 5 Accident Prevention Association	5	30,135.00	
Industrial Accident Prevention Associations	3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 23 (0)	175,700.00	
Class 20 Accident Prevention Association	20	32,000.00	
Ontario Highway Construction Safety Association	21	19,000.00	
Electrical Employers' Association of Ontario	22	5,880.00	
Construction Safety Association of Ontario	24	40,000.00	
		$369,415.16	
Charged for Supervision		18,470.76	
TOTAL CHARGED TO SCHEDULE 1			$387,885.92

MINE RESCUE WORK ACCOUNT, 1947

Maintenance of Stations, Salaries and Supplies	94,222.07	
Administrative Supervision	4,711.10	
		$ 98,933.17

ANALYSIS OF ADMINISTRATION EXPENSES AND NON-ADMINISTRATIVE SERVICE OUTLAYS DURING 1947

	Administration Expenses	Non-Administrative Service Outlays	Total
Salaries of Board and Staff	$ 644,731.97	$ 118,784.17	$ 763,516.14
Travelling and Other Expenses of Board and Staff	65,560.97	6,507.87	72,068.84
Printing, Stationery and Office Supplies	44,635.37	9,322.42	53,957.79
Postage and Excise Stamps	65,329.05		65,329.05
Telephone, Telegraph and Express	3,249.09	4,486.11	7,735.20
Legal Expenses, Witness Fees, etc.	791.00		791.00
Claimants' Travelling Expenses and Medical Examinations	—.22	112.30	112.08
Insurance and Security Service	4,196.04	5,176.69	9,372.73
Auditor's Services, under instructions of Attorney - General		3,125.00	3,125.00
Office Rent	45,895.52		45,895.52
Permanent Equipment	17,671.82	1,316.87	18,988.69
Miscellaneous Services, Equipment Rental and Repairs	31,470.10	4,514.20	35,984.30
Meals for Staff working overtime (nights, Saturday afternoons, etc.)	4,949.70	352.50	5,302.20
Contribution to Staff Pension Fund		73,837.70	73,837.70
International Convention of Compensation Boards		2,468.07	2,468.07
	$ 928,480.41	$ 230,003.90	$ 1,158,484.31

Charged to Mine Rescue Work	$ 4,711.10
Charged to Silicosis Account	43,345.72
Charged to Special Hospital Account	6,228.00
Charged to Clinic Account	4,036.57
Charged to Malton Convalescent Centre	10,416.21
Charged to Safety Associations	18,470.76
Charged to Schedule 2 Employers	37,768.50
Charged to Dominion of Canada	34,995.00
Charged to Province of Ontario	4,324.50
Charged to Schedule 1 Employers	764,184.05
	$928,480.41

STANDING SCHEDULE 1 ACCIDENT FUND AS AT DEC. 31, 1947

ASSETS

Cash in Banks:		
Canadian Bank of Commerce	$ 31,327.46	
Royal Bank of Canada	63,696.18	
Dominion Bank	655,467.13	
		$ 750,490.77
Investments		64,632,264.70
Due for Administrative Expenses:		
From Schedule 2 employers	37,768.50	
From Dominion of Canada	34,995.00	
From Province of Ontario	4,324.50	
		77,088.00
Assessments estimated to be due on adjustment of 1947 Pay Rolls		2,350,000.00
Accountable warrants held by members of Staff		9,084.05
Salary advances to members of Staff		460.00
Due from Staff for Canada Savings Bonds Purchases, instalment plan terminatng October 15, 1948		16,850.20
		$67,836,237.72

LIABILITIES

Compensation Awarded, payment deferred, other than pensions		$ 228,602.26
Pension Liability		47,412,998.68
Balance at Credit of Silicosis Account		2,380,257.63
Compensation and Medical Aid estimated outstanding		8,900,482.55
Estimated for Pneumoconiosis		1,570,507.93
Assets in Excess of Liabilities		
Disaster Reserve	$ 909,997.41	
Second Injury Fund	173,036.14	
Investment Reserve	1,209,907.98	
Contingent and Operating Reserves	5,050,447.14	
		7,343,388.67
		$67,836,237.72

STANDING SCHEDULE 2 FUNDS AS AT DECEMBER 31, 1947

ASSETS

Cash in Imperial Bank of Canada	$ 143,173.47
Investments	4,356,098.09
	$4,499,271.56

LIABILITIES

Balance Employers' Deposits:	
Under Section 28	$4,178,124.37
Under Section 32	88,572.95
Claimants' Moneys held by the Board	16,508.60
Investment Reserve	216,065.64
	$4,499,271.56

NUMBER OF ACCIDENTS IN 1946 INVOLVING PAYMENT

Class	Medical Aid Only	Temporary Disability	Permanent Disability	Death	TOTALS
1	1,754	4,182	174	26	6,136
2	3,555	3,024	76	17	6,672
3	1,328	714	71	5	2,118
4	1,911	1,207	125	1	3,244
5	3,440	2,015	222	24	5,701
6	1,306	724	41	5	2,076
7	1,699	511	61	5	2,276
8	2,674	1,351	81	7	4,113
9	4,106	1,342	89	6	5,543
10	12,444	3,870	359	6	16,679
11	8,832	2,619	152	9	11,612
12	2,105	901	49	3	3,058
13	785	420	36	5	1,246
14	1,030	571	22	0	1,623
15	4,429	2,405	116	9	6,959
16	1,762	802	64	3	2,631
17	1,640	868	53	2	2,563
18	1,212	523	22	0	1,757
19	1,858	793	62	2	2,715
20	2,217	1,665	67	15	3,964
21	1,028	635	33	7	1,703
22	2,575	1,264	53	7	3,899
23	563	288	13	8	872
24	6,438	3,643	159	21	10,261
25	1,876	1,119	35	2	3,032
Totals	72,567	37,456	2,235	195	112,453
Schedule 2	1,596	2,800	122	30	4,548
Crown Cases	2,248	3,170	83	21	5,522
GRAND TOTALS	76,411	43,426	2,440	246	122,523

COMPENSATION, MEDICAL AID, AND ACCIDENTS PAID FOR, DURING 1947

Compensation and Medical Aid Awarded during 1947

Schedule 1	$ 15,147,568.11
Schedule 2	1,473,602.76
Crown Cases	1,139,572.52
Total	$ 17,760,743.39

Accidents Paid for during 1947

	Medical Aid Only	Temporary Disability	Permanent Disability	Death	TOTALS
Schedule 1	70,461	33,473	878	106	104,918
Schedule 2	3,805	2,458	43	31	6,337
Crown Cases	3,017	2,813	85	22	5,937
TOTALS	77,283	38,744	1,006	159	117,192

TOTAL AND AVERAGE COMPENSATION AND MEDICAL AID COSTS, 1946, SCHEDULE 1, BY CLASSES

Compensation Costs

Class	Temporary Disability Cases		Permanent Disability Cases				Death Cases						ALL CASES	
	For Temporary Disability		For Temporary Disability		For Permanent Disability		For Temporary Disability		For Death Benefits		For Funeral Expenses			
	Total	Average	Total	Average	Total	Average	Total	Average	Total	Average	Total	Average	Total	Average
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1	524,028.10	125.31	68,946.53	396.24	247,639.95	1423.22	231.83	8.92	148,998.00	5730.69	3,731.72	143.53	993,576.13	226.74
2	322,280.36	106.57	31,956.94	420.49	85,885.75	1130.08	88.94	5.23	90,029.00	5295.82	2,697.03	158.65	532,938.02	170.98
3	41,281.70	57.82	19,606.13	276.14	47,857.30	674.05	23.26	4.65	26,635.00	5327.00	630.00	126.00	136,033.39	172.19
4	77,276.15	64.02	32,684.83	261.48	111,559.30	892.47	—	—	1,000.00	1000.00	125.00	125.00	222,645.28	167.03
5	626,685.87	311.01	276,120.07	1243.78	670,184.25	3018.85	6,246.54	260.27	152,928.00	6372.00	3,548.55	147,86	1,735,713.28	767.68
6	92,762.22	128.12	22,334.80	544.75	106,715.50	2602.81	—	—	47,176.00	9435.20	665.00	133.00	269,653.52	350.20
7	95,924.36	187.72	37,381.84	612.82	207,164.50	3396.13	3,757.89	751.57	33,421.00	6684.20	625.00	125.00	378,274.59	655.59
8	169,917.68	125.77	76,070.86	939.15	321,721.71	3971.87	12,584.73	1797.81	52,464.00	7494.86	750.00	107.14	633,508.98	440.24
9	152,466.93	113.61	60,855.44	683.77	144,586.65	1624.60	12,100.41	2016.73	42,766.00	7127.67	826.90	137.82	413,602.33	287.82
10	393,048.69	101.56	95,430.29	265.82	454,111.49	1264.93	4,481.07	746.85	25,889.00	4314.83	786.44	131.07	973,746.98	229.93
11	375,272.95	143.29	78,828.97	518.61	272,002.00	1789.49	164.06	18.23	62,902.00	6989.11	1,250.00	138.89	790,419.98	284.32
12	45,382.15	50.37	58,988.46	1203.85	144,888.00	2956.90	—	—	30,714.00	10238.00	375.00	125.00	280,347.61	294.17
13	38,558.34	91.81	33,569.76	932.49	126,919.26	3525.54	—	—	36,061.00	7212.20	688.62	137.72	235,796.98	511.49
14	44,244.51	77.49	11,445.20	520.24	36,294.40	1649.75	—	—	—	—	—	—	91,984.11	155.12
15	216,599.60	90.06	58,329.92	502.84	128,447.30	1107.30	167.00	18.56	42,674.86	4741.65	1,125.00	125.00	447,343.68	176.82
16	99,348.55	123.88	14,511.17	226.74	122,761.00	1918.14	—	—	24,267.00	8089.00	431.75	143.92	261,319.47	300.71
17	82,801.47	95.39	16,820.23	317.36	61,523.73	1160.83	5.21	2.61	18,230.00	9115.00	250.00	125.00	179,630.64	194.62
18	48,024.85	91.83	6,361.73	289.17	22,416.00	1018.91	—	—	—	—	—	—	76,802.58	140.92
19	53,419.17	67.36	23,700.19	382.26	90,441.50	1458.73	—	—	15,848.00	7924.00	329.00	164.50	183,737.86	214.40
20	204,679.98	122.93	30,056.61	448.61	82,762.60	1235.26	901.74	60.12	102,811.00	6854.07	2,062.50	137.50	423,274.43	242.29
21	105,382.16	165.96	25,331.73	767.63	46,542.25	1410.37	—	—	52,526.25	7503.75	950.00	135.71	230,732.39	341.83
22	134,226.01	106.19	18,979.67	358.12	88,875.00	1676.89	32.05	4.55	51,349.00	7335.57	875.00	125.00	294,336.73	222.31
23	37,656.83	130.75	8,872.47	682.50	20,193.75	1553.37	—	—	32,753.00	4094.13	1,509.80	188.73	100,985.85	326.82
24	507,746.23	139.38	92,028.87	578.80	287,068.05	1805.46	2,555.33	121.68	144,812.00	6895.81	2,687.40	127.97	1,036,897.88	271.23
25	104,171.26	93.09	10,389.77	296.85	36,991.00	1056.89	—	—	21,068.00	10534.00	250.00	125.00	172,870.03	149.54
ALL	4,593,186.12	122.63	1,209,602.48	541.21	3,965,552.24	1774.30	43,340.06	222.26	1,257,322.11	6447.81	27,169.71	139.33	11,096,172.72	278.20

TOTAL AND AVERAGE COMPENSATION AND MEDICAL AID COSTS, 1946, SCHEDULE 1, BY CLASSES

Medical Aid Costs

Class	When Medical Aid Only		In Temporary Disability Cases		In Permanent Disability Cases		In Death Cases		FOR ALL CASES	
	Total	Average	Total	Average	Total	Average	Total	Average	Total	Average
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1	9,945.17	5.67	208,457.75	49.85	38,936.52	223.77	1,346.26	51.78	258,685.70	42.16
2	18,048.29	5.08	116,076.21	38.38	17,961.22	236.33	1,226.70	72.16	153,312.42	22.98
3	6,919.78	5.21	16,991.20	23.80	8,452.62	119.05	45.50	9.10	32,409.10	15.30
4	10,289.88	5.38	40,873.29	33.86	14,924.92	119.40	—	—	66,088.09	20.37
5	22,277.85	6.48	170,548.39	84.64	33,397.93	150.44	941.10	39.21	227,165.27	39.85
6	6,839.27	5.24	33,233.85	45.90	7,820.04	190.73	437.10	87.42	48,330.26	23.28
7	11,875.70	6.99	23,994.95	46.96	20,653.88	338.59	1,014.40	202.88	57,538.93	25.28
8	14,001.43	6.77	44,757.37	33.13	24,116.83	297.74	3,873.55	553.36	86,749.18	21.09
9	20,085.00	4.89	38,132.77	28.41	27,099.85	304.49	2,884.60	480.77	88,202.22	15.91
10	62,818.55	5.05	131,451.01	33.97	57,588.79	160.41	926.15	154.36	252,784.50	15.16
11	48,939.85	5.54	104,723.36	39.99	27,842.62	183.18	1,261.33	140.15	182,767.16	15.74
12	12,443.53	5.91	44,466.22	49.35	12,990.16	265.11	429.25	143.08	70,329.16	23.00
13	3,861.75	4.92	9,958.81	23.71	18,088.82	502.47	36.85	7.37	31,946.23	25.64
14	6,769.93	6.57	15,646.21	27.40	7,659.78	348.17	—	—	30,075.92	18.53
15	25,679.60	5.80	81,238.44	33.78	27,980.48	241.21	93.75	10.42	134,992.27	19.40
16	10,524.40	5.97	31,901.36	39.78	15,053.84	235.22	193.00	64.33	57,672.60	21.92
17	8,757.63	5.34	35,624.00	41.04	11,030.04	208.11	38.25	19.13	55,449.92	21.63
18	6,288.02	5.19	13,592.54	25.99	4,120.85	187.31	—	—	24,001.41	13.66
19	10,219.19	5.50	23,699.21	29.89	11,619.81	187.42	4.00	2.00	45,542.21	16.77
20	12,311.38	5.55	71,278.14	42.81	14,568.58	217.44	431.35	28.76	98,589.45	24.87
21	5,681.34	5.53	30,590.24	48.17	11,190.32	339.10	30.00	4.29	47,491.90	27.89
22	14,559.14	5.65	61,051.80	48.30	15,242.22	287.59	229.40	32.77	91,082.56	23.36
23	2,983.15	5.30	17,701.08	61.46	2,249.93	173.07	38.00	4.75	22,972.16	26.34
24	33,038.72	5.13	157,669.25	43.28	43,504.24	273.61	1,419.91	67.61	235,632.12	22.96
25	10,143.91	5.41	47,369.90	42.33	8,348.55	238.53	41.75	20.88	65,904.11	21.74
ALL	395,302.46	5.45	1,571,027.35	41.94	482,442.84	215.86	16,942.20	86.88	2,465,714.85	21.93

NUMBER OF ACCIDENTS REPORTED TO BOARD, 1915-1947

Year	Total
1915	17,033
1916	26,092
1917	36,532
1918	47,848
1919	44,260
1920	54,851
1921	45,191
1922	50,411
1923	61,109
1924	58,675
1925	60,012
1926	65,916
1927	71,979
1928	79,398
1929	87,103
1930	69,267
1931	52,894
1932	41,470
1933	38,042
1934	54,730
1935	58,546
1936	61,382
1937	70,582
1938	59,834
1939	60,520
1940	81,116
1941	113,822
1942	133,513
1943	131,458
1944	123,820
1945	118,220
1946	138,570
1947	168,767
All Years	2,382,963

NUMBER OF ACCIDENTS INVOLVING PAYMENT, 1915-1946

	Medical Aid Only	Temporary Disability	Permanent Disability	Death	Totals
1915	*........	9,311	1,339	296	10,946
1916	*........	15,993	2,232	373	18,598
1917	†4,267	21,556	2,475	370	28,668
1918	12,822	24,089	2,624	366	39,901
1919	11,769	22,418	2,457	364	37,008
1920	15,566	27,423	2,735	373	46,097
1921	12,141	22,855	2,079	331	37,406
1922	15,913	24,461	2,082	325	42,781
1923	20,125	28,954	2,340	327	51,746
1924	20,811	25,980	2,191	315	49,297
1925	22,444	26,040	2,157	264	50,905
1926	25,330	27,150	2,421	308	55,209
1927	27,852	28,836	2,476	311	59,475
1928	31,688	30,440	2,926	414	65,468
1929	34,582	32,920	3,372	417	71,291
1930	29,189	25,613	3,147	394	58,343
1931	21,970	20,543	2,495	231	45,239
1932	17,320	15,466	1,805	167	34,758
1933	17,258	14,235	1,511	159	33,163
1934	24,552	22,020	1,790	211	48,573
1935	27,904	23,024	992	208	52,128
1936	30,086	22,954	835	272	54,147
1937	34,318	26,427	1,049	248	62,042
1938	29,559	21,501	936	276	52,272
1939	30,672	21,203	1,020	215	53,110
1940	43,346	27,245	1,432	269	72,292
1941	63,977	35,999	1,951	363	102,290
1942	74,642	40,985	1,950	309	117,886
1943	75,326	41,026	2,076	285	118,713
1944	66,819	40,191	2,210	286	109,506
1945	61,298	39,741	2,321	333	103,693
1946	76,411	43,426	2,440	246	122,523
Totals	979,957	850,025	65,866	9,626	1,905,474

* No Medical Aid. † Half Year Only.

SUMMARY OF RECEIPTS AND PAYMENTS

From Commencement of Act to End of 1947

Schedule 1

RECEIPTS

Assessments, Including additional assessments, added percentages, and interest for under or over estimate	$211,320,742.53	
Less Merit Rating:		
Charges:	$ 1,067,195.43	
Refunds)	2,058,253.48	
	—991,058.05	
		$210,329,684.48
Section 8		378,190.78
Section 84 (4)		54,151.39
Section 96		3,385.00
Section 107		177,660.96
Section 114		10,046.40
Department of Vetrans' Affairs		470,262.82
From Province of Ontariro for Blind Workmen		7,428.52
Accident Cost Refunds		68,405.04
Silicosis Assessments		9,130,386.97
From Province of Ontario under Section 78, grants for administration expenses		655,500.00
Interest from investments and bank deposits		35,882,005.42
From Schedule 2 and Crown Employers for share of administrative expenses		1,536,841.46
Principal returned from investments		37,366,253.79
Amount received from sales of investments in excess of book value		943,189.02
For special statistical and other services		116,981.89
Rehabilitation Clinic		111,327.53
Refund of administration expenses, result of special investigation		782.35
Refund of Hospitalization		155,585.74
		$297,398,069.56

PAYMENTS

Compensation payments, other than pensions or deferred payments or under Sections 22 or 36	$ 76,824,989.32
Pensions	55,177,370.54
Deferred payments—Prinipal and Interest	1,899,387.60
Under Section 22	996.40
Under former Section 36	41.75
Under Section 8	28,826.98
Medical Aid	35,903,219.85
Rehabilitation	136,015.05
Administration Expenses	13,716,245.23
Safety Associations	5,078,863.64
Investments	102,432,199.20
Silicosis	3,841,608.80
Mine Rescue Work	430,810.18
Clinic Expenses	755,775.62
Pneumoconiosis Examinations	66.14
Hospitalization	218,808.25
Malton Convalescent Centre	202,354.19
Cash in Banks, Dec. 31, 1947	750,490.77
	$297,398,069.56

SUMMARY OF RECEIPTS AND PAYMENTS

From Commencement of Act to End of 1947

Schedule 2

RECEIPTS	
From Employers for Deposits under Section 28 and for Claimants' Moneys	$10,043,138.54
From Employers for Deposits under Section 32	26,138,500.04
Interest from Investments and Bank Deposits	5,033,745.26
Investments: Principal returned	3,213,636.73
Amount received from sale in excess of book value	206,663.91
	$44,635,684.48

PAYMENTS	
To Claimants out of Deposits under Section 28 and Claimants' Moneys	$ 9,582,651.20
Returned to Employers out of Deposits under Section 28	1,290,208.90
Paid out of Deposits under section 32: Compensation and Medical Aid	25,685,822.87
Rehabilitation	6,232.94
Returned to Employers	352,090.78
To Schedule 1 for Administration Expenses	5,769.50
Investments	7,569,734.82
Cash in Bank, Dec. 31, 1947	143,173.47
	$44,635,684.48

20th February, 1948.

THE WORKMEN'S COMPENSATION BOARD OF ONTARIO,

Toronto, Ontario.

Dear Sirs:

I have completed a continuous audit of the books of the Board for the year ended 31st December, 1947, and have obtained all the information and explanations I have required.

In my opinion, the attached statements of Receipts and Payments, Schedules 1 and 2, and of the Superannuation Fund, fairly set forth the cash transactions of the Board for the year ended 31st December, 1947.

Bank balances at the close of the period have been verified by direct communication with the Board's bankers.

The amortized book value of the investments held by the Board as at the above mentioned date was $69,610,778.94 and I confirmed by a physical examination the securities representing these investments as at that date.

Respectfully submitted

A. G. CALDER, F.C.A.

Chartered Accountant.

WORKMEN'S COMPENSATION BOARD

STATEMENT OF RECEIPTS AND PAYMENTS DURING 1947

Schedule 1

RECEIPTS

Cash in Banks 1st January, 1947		
Canadian Bank of Commerce	$ 19,809.61	
Royal Bank of Canada	55,379.93	75,189.54
Net Assessments, Penalties, etc.		
Gross Assessments	$18,408,041.22	
Under Section 8	32,375.17	
Under Section 96	2,135.00	
Under Section 107	4,557.53	
Under Section 114	314.50	
From Department of Veterans' Affairs	34,625.23	
Accident Cost Refunds	1,594.52	
Province of Ontario for Blind Workmen	156.28	
	$18,483,799.45	
Less: Assessments and Penalties Refunded	71,744.96	18,412,054.49
Silicosis Assessments		444,062.01
Interest:		
Investments	$ 2,215,262.63	
Less: Interest on Bank Overdrafts	7,385.52	2,207,877.11
Investments:		
Principal Returned		561,079.95
From Schedule 2 and Crown Employers:		
For Administration Expenses, on account of prior year paid out of Schedule 1 in 1946		71,524.50
		$21,771,787.60

PAYMENTS

Bank Overdraft 1st January 1947:		
Dominion Bank		$ 930,104.95
Compensation other than pensions and deferred Compensation		5,340,700.63
Pensions		4,041,683.75
Deferred Compensation		157,223.13
Rehabilitation		5,040.77
Medical aid		2,704,355.73
Silicosis:		
Compensation	$97,324.27	
Medical aid	30,915.43	
Rehabilitation	161.70	
Expenses	94,566.00	222,967.40
Under Section 8		2,932.52
Mine Rescue Work		94,222.07
Administration and Other Expenses		1,174,183.46
Safety Associations		369,415.16
Clinic Expenses		76,420.25
Special Hospitalization:		
Toronto General Hospital	$112,360.00	
Toronto Western Hospital	12,200.00	
	$124.560.00	
Less: Amounts transferred from Medical Aid and Other Accounts	114,035.75	10,524.25
Malton Convalescent Center		202,354.19
		$ 15,332,128.26
Investments:		
Securities for permanent investment		5,689,168.57
Cash in Banks—31st December 1947:		
Dominion Bank	$655,467.13	
Canadian Bank of Commerce	31,327.46	
Royal Bank of Canada	63,696.18	750,490.77
		$21,771,787.60

WORKMEN'S COMPENSATION BOARD

STATEMENT OF RECEIPTS AND PAYMENTS DURING 1947

Schedule 2

RECEIPTS

Cash in Bank 1st January 1947: Imperial Bank of Canada		$ 194,374.06
Employers' Deposits Under Section 28		511,850.80
Employers' Deposits Under Section 32		1,820,406.23
Employers' Deposits for Claimants' Monies		11,398.93
Interest: Investments	$163,604.06	
Bank Deposits	523.56	164,127.62
Investments: Principal Returned		73,715.54
		$ 2,775,873.18

PAYMENTS

Claimants out of deposits under Section 28		$ 411,518.46
Deposits returned to employers under Section 28		27,755.09
Claimants out of claimants' monies		12,376.03
Paid out of Deposits under Section 32: Compensation	$1,487,264.95	
Medical Aid	346,090.97	1,833,355.92
Deposits returned to employers under Section 32		13,455.00
Investments: Securities for permanent investment		334,239.21
Cash In Bank—31st December 1947: Imperial Bank of Canada		143,173.47
		$ 2,775,873.18

WORKMEN'S COMPENSATION BOARD
STATEMENT OF RECEIPTS AND PAYMENTS

From 1st April 1947 to 31st December 1947
Superannuation Fund

RECEIPTS

Cash received from the trustees of the staff pension fund	$ 21,066.90
Contributed by the Board for prior services	24,391.42
Contributed by the board and staff for current services	90,741.81
Interest on investments and bank deposits	15,210.75
	$151,410.88

PAYMENTS

Pension paid	$ 5,170.81
Contributions refunded	9,149.04
Investments: Securities for permanent investment	105,693.68
Cash in Bank—31st December 1947: Canadian Bank of Commerce	31,397.35
	$151,410.88

NOTE: Securities having an amortized book value of $516,722.47 were received from the Trustees of the Staff Pension Fund.

ONTARIO
DEPARTMENT OF AGRICULTURE

REPORT

OF THE

ONTARIO VETERINARY COLLEGE

1946-47

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER NO. 29, 1947

ONTARIO

TORONTO
Printed and Published by B. Johnston,
Printer to the King's Most Excellent Majesty
1947

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REPORT OF THE ONTARIO VETERINARY COLLEGE

To The Honourable T. L. Kennedy,
Minister of Agriculture

Sir,—

I have the honour of presenting, herewith, the report of the Ontario Veterinary College for the year extending from April 1, 1946 to March 31, 1947.

During the past academic year, 1946–47, the College enrollment was 348 students, of whom 211 were residents of Ontario. Seventy-two per cent of the student body is comprised of war veterans. The average age of the undergraduates is 24.65 years, which is almost identical with that recorded in last year's report. The student body consists of 340 male students, and eight female students.

During the year, through the sympathetic consideration of the Honourable the Minister, reclassification of the staff was effected: so that the College faculty now consists of 25 members, of which number there are five professor heads, six professors, four associate professors, and five assistant professors. Combining academic, extension, administrative, and housekeeping staffs, therefore, the College has a total staff of 71 persons.

ACADEMIC STAFF

We regret very much the resignation, during the year, of two members of our staff. Dr. H. J. Griffiths left the Ontario Veterinary College to take a position with Washington State College. Dr. C. E. Phillips resigned from our staff to take a position, which was a definite promotion, with the University of British Columbia. We wish both of these staff members every success.

Assistance in our teaching programme has been obtained from Dr. M. C. Dinberg, of the Ontario Department of Health, who gave instruction in histology; and from Dr. J. A. Campbell, of Toronto, who gave instruction in zoology. Dr. C. E. VanRooyen, of the School of Hygiene, University of Toronto, has assisted us in the field of virology. Dr. A. E. Broome, Kitchener, was appointed as a temporary lecturer for the academic year, to give a course of lectures in radiology to the third year class.

Additions have been made to our staff, during the past fiscal year, as follows: Department of Anatomy—Dr. G. K. Boyce, Dr. B. J. McSherry, and Dr. J. H. Ballantyne; Department of Medicine—Dr. J. A. Henderson; and Histology—Dr. J. D. Schroder. Dr. J. W. MacPherson and Dr. E. F. Pallister also joined our staff during the year.

Preliminary rearrangement has been made in the teaching staff as follows: Dr. C. E. VanRooyen will continue to give instruction in preventive medicine and virology. He will be assisted by Dr. C. Rhodes, also of the School of Hygiene. Dr. Ralph LeGrow will join our staff on July 1, 1947. It is planned that there will be two other appointments, one in the Bacteriological Department and the other in the Clinical Department.

An initial start has been made toward postgraduate training of faculty members. Dr. J. P. Gilman spent the past year at Michigan State College. He will return on June 1, 1947, and assume responsibility for instructional work in embryology, histology, and genetics. Dr. T. Lloyd Jones and Dr. J. D. Schroder, who conducted this work capably during Dr. Gilman's absence, will join the Pathological Department. Dr. D. L. T. Smith, who has spent the past year and a half taking postgraduate work at Banting Institute and the School of Hygiene, Toronto, will assume duties in the Pathological Department. The Pathological Department will be responsible not only for the work in pathology, but also for work in histology and embryology, for the conducting of post-mortems on specimens of tissue removed by autopsy, and for the forwarding of reports on these post-mortems to practitioners. Dr. V. R. Brown spent three months in postgraduate study at Michigan State College.

LENGTHENING OF THE UNDERGRADUATE COURSE

Considerable thought has been given to the advisability of lengthening the course in veterinary medicine to five academic years. In view, however, of the large number of veterans now among the student body—men who have spent three and four years overseas—it was decided to defer lengthening the course, and instead to prolong the academic year to approximately 32 weeks.

In addition, a regulated internship period between the third and fourth years has been made obligatory for all students. This internship will become effective in the 1947–48 session. All third year students will continue study, following completion of the annual examinations in May. During the months of May and June, they will cover work ordinarily taken in September and October of the fourth year. During the months from July 1 to November 1, the students will be rotated over fields of practical study: one month in meat inspection, one month in field work, and two months in general practice. With these innovations, the course, in reality, will extend four and one-half academic years. The students will be placed in governmental work and with general practitioners selected, as far as possible, in the student's home province and close to his home.

CURRICULUM CHANGES

A definite change has been made in the curriculum. All students, to gain entrance to the College, must have at least five months' farm experience. In addition to this, a course in orientation will be included in the first year, and students will be required to pass a practical examination. A course in agricultural geography will be given during the coming session, 1947–48. Instruction in pathology will be commenced in the second year, and will continue throughout the third year. The fourth year course in pathology will be confined to pathology of special diseases and to clinical pathological demonstrations.

The Department of Preventive Medicine will be established to include the sections of Bacteriology, Immunology, Virology, and Public Health. Public Health embraces the course of instruction in food hygiene, and includes instruction in epidemiology, statistics, and communicable disease control, along with preliminary training in sanitary engineering.

POSTGRADUATE FACILITIES

With the completion of the new wing, approach will be made to the University of Toronto, with regard to facilities and arrangements for postgraduate work to be done at the Ontario Veterinary College. Arrangements in this connection have not yet been completed, but it is hoped that definite plans will be made within the next academic year.

SUBSIDIZED VETERINARY UNITS

Subsidized Veterinary Units have been established in the following districts:

Matheson—established December, 1946; veterinary officer—Dr. C. F. Knell.
New Liskeard—established April, 1946; veterinary officer—Dr. F. C. Nelson.
Algoma—established July, 1945; veterinary officer—Dr. W. Brisbane.
Manitoulin Island—established October, 1946; veterinary officer—Dr. S. J. Morrison.
Rainy River—established June, 1946; veterinary officer—Dr. W. Hill.
Kenora—established October, 1946; veterinary officer—Dr. M. H. Horwill.

A uniform contract plan is in operation in all the above-mentioned Subsidized Veterinary Units, with the single exception of the Kenora Unit.

REGIONAL VETERINARIANS

According to plan, regional veterinary officers are to be appointed to assist veterinary practitioners in diagnostic work and by office consultation. To date, one such officer has been established, at the Kemptville Agricultural School. Dr. Eric Pallister was appointed regional veterinary officer, in October, 1946, to serve the counties of Lennox-Addington, Frontenac, Lanark, Carleton, Russell, Prescott, Glengarry, Stormont, Dundas, Grenville, and Leeds. A diagnostic laboratory is to be established at the Kemptville Agricultural School.

DEPARTMENT OF EXTENSION

There has been an increase in the diagnostic services offered through the Extension Department of the Ontario Veterinary College. A brief summary of each of the various activities follows:

Brucellosis

During the year, 82,265 blood samples were examined at the College laboratory. Of these, 21,754 were samples from animals intended for export. A questionnaire, forwarded to breeders who had received Strain 19 Br. abortus vaccine from the College for the past five years, revealed the fact that in Brucella-free herds the percentage of abortions among calfhood vaccinated animals was 0.25%, and in Brucella-infected herds the percentage of abortions among calfhood vaccinated animals was 2.8%.

Continued observation of a group of 30 herds in which abortion infection was prevalent showed the value of adult vaccination in lessening the severity of infection.

During the year, 98,659 doses of Brucella abortus vaccine were distributed for calfhood vaccination.

Experimental work in connection with the preparation of vaccine is now under way.

Mastitis

The College laboratory examined 12,932 samples of milk for the presence of streptococcal agalactiae, by far the most frequent cause of mastitis infection. Of these, 2,718 samples were submitted by veterinarians.

Studies of infected herds were undertaken. These included:

1. Investigation of the optimum dosage of penicillin for infusion into the udder.
2. Tests for penicillin sensitivity, conducted on 240 strains of mastitis organisms isolated.

Toward the end of the year, penicillin bougies in which penicillin is suspended in beeswax and an organic substance, for insertion up the teat canal, were used. Penicillin bougies used in this work contained 25,000 units of penicillin. Treatment was found to be effective, and did not inconvenience the animal nor cause a diminution in the milk secretion. Investigational work is being continued to determine the least amount of penicillin required to effect an improvement in cases of mastitis infection.

During the past year, in addition to routine work, a survey was made of the producing animals supplying milk to Guelph, and also of the animals in three government herds. Our survey work will continue throughout the coming year. Indications are that more encouraging results will be obtained in connection with the use of the penicillin bougie, so that a mastitis control programme on a community basis may be made a practical procedure.

Poultry Diseases

Examinations of 5,229 birds were made in the College laboratory. These birds were submitted from various communities throughout the province.

In addition to this, experimental work was conducted in connection with the use of sulfa drugs for the alleviation of coccidiosis infection. An outbreak of fowl typhoid was identified on one premises during the year. The flock was sacrificed. Erysipelas infection was identified on four occasions during the year. Two of these instances were among turkeys, and two among chickens, in Central and Southwestern Ontario. Erysipelas infection had not been evidenced for 12 years prior to this.

An investigation of the toxicity of DDT was also conducted, and the findings published.

Biological products for the prevention of poultry infections were distributed to the extent of: 267,800 doses of fowl pox vaccine, 2,900 doses of pigeon pox vaccine, and 101,500 doses of vaccine for the prevention of laryngotracheitis.

Other Services

Investigational projects concerning pulmonary emphysema of cattle, infectious rhinitis of swine, and sudden death in calves were continued. Because of the heavy tax imposed on the staff by this year's large student enrollment, however, some work had to be deferred.

In addition to serving the farmers and veterinarians of the Province, the Ontario Veterinary Department of Extension serves also the Ontario Agricultural College and the Ontario Reformatory. This service to the two other provincial institutions provides the Veterinary College with material for teaching purposes as well as with a necessary and desirable contact.

In closing, may I express my appreciation of the loyalty and devotion to duty of all staff members, and my sincere appreciation of the sympathetic consideration given by the Honourable the Minister and the Deputy Minister.

All of which is respectfully submitted,

Guelph, Ontario,
March 31, 1947

A. L. MacNabb
Principal

DEPARTMENT OF ANATOMY

V. R. Brown, D.V.M.

Herewith I present the annual report for the year 1946–1947.

The assistance, provided this department, has been very satisfactory. Dr. J. H. Ballantyne, returned to the staff about December 1, 1946. Since then he has carried his share of the instructional load, as well as helped with research projects. Dr. George Boyce, of the Department of Surgery, has rendered valuable assistance during the fall and winter terms. This department is grateful to him for his interest and enthusiastic support.

During the spring term we were fortunate in being able to use one of the army huts as a supplementary laboratory. This enabled us to give the second year work on special anatomy of the pig, ox, sheep, dog and mink. It would have been impossible to have accommodated this class otherwise.

The number of students taking anatomy during the year is the greatest on record since 1906–1907. Including the special spring course of last year, there were almost an even 300. In order to show the instructional work done by this department, the relative data are arranged in tabular form below.

TABULATION OF TEACHING LOAD

Class	No. of Students	No. of Weeks	No. Lectures		No. Lab. Hours		Class Hrs. per Term	Total Student Hours
			Week	Term	Week	Term		
First Year—Spring "Special"	39	10	2	20	18	180	200	7,800
First Year—Fall 1946	142	10	2	20	6	60	80	11,360
Second Year—Fall 1946	124	10	1	10	18	180	190	23,560
First Year—Spring 1947	142	15	1	15	14	210	225	32,950
Second Year—Spring 1947	124	15	3	45	11	165	210	20,460

If anatomy is to be applied, the living animal and not the dead must be studied and mastered. With this in mind, an attempt has been made to make student examinations more practical. Comprehensive tests of the students' ability to locate and define structures in the living specimens have been carried out. The following chart shows, in table form, the number of oral and written examinations conducted.

TABULATION OF EXAMINATIONS CONDUCTED

Class	No. of Students	No. Regions Covered—Oral Examinations							Total Written Exams	Total Exams	Total Student Exams
		Horse	Ox	Sheep	Pig	Dog	Mink	Spec'l Organs			
First Year—Spring 1946	39	10	10	....	....	10	....	....	2	32	1,248
First Year—Fall 1946	142	1	1	1	1	1	....	....	2	7	994
Second Year—Fall 1946	124	12	12	....	....	....	....	6	1	31	3,844
First Year—Spring 1947	142	13	13	....	....	....	....	....	1	27	3,834
Second Year—Spring 1947	124	1	1	1	1	1	1	....	1	7	868

The preparation of specimens consumes a considerable amount of our time. A record has been made of those used during the term, and the following table is designed to show the number and kind utilized. These specimens are worked over during the term and then discarded.

Species of Animal	Spring 1946 January Registration	Fall 1946 Second Year Class	Fall 1946 First Year Class	Spring 1947 Second Year Class	Spring 1947 First Year Class	Total Specimens
Horse	6	18	....	....	15	39
Ox	2	....	....	2	4	8
Sheep	....	....	....	6	....	6
Pig	2	....	....	2	....	4
Dog	20	....	....	25	....	45
Cat	....	....		....	....	....
Mink	....	....	150	75	....	225
Larynx	....	75	....	....	....	75
Brains	....	....	....	60	....	60
Eyes	....	75	....	....	....	75

There are many specimens needed that would take too much of the students' time for individual preparation. These are made during our spare time and kept in the museum cases or tanks, to be used as required. This year we have added a large number of bones from the animals studied. In order to have the necessary material ready for laboratory work at the beginning of the fall term, a sufficient number of small animals has been preserved in tanks.

Because of the ease of securing fox carcasses at pelting time, we have approximately 150 ready for use next October. The fox closely resembles the dog, and it is hoped this animal will be more satisfactory than mink for laboratory use. The great criticism of mink, in so far as dissection is concerned, is their small size.

TABLE SHOWING SPECIMENS PREPARED FOR FUTURE USE

Species of Animal	No. Entire Cadavers	Skeleton Entire	Head Only	Fore Extremity	Hind Extremity
Horse	...	...	4	75	60
Ox	..	..	....	4	1
Sheep	....	1	3	....	....
Pig	1	....	1	.	....
Dog	6	....	2	...	....
Cat	1	....	3	..	....
Fox	160	3	60	10	10
Mink	225	32	18	14	14
Rabbit	16	....	....	....	....
Chinchilla	14	3	6	6	6
Racoon	2	....	....	....	....
Squirrel	1	....	....	....	....
Monkey	....	2	..	....	..

Dissection guide sheets for the study of the sheep, the fox, and the mink have been prepared and multigraphed for student use. It is our hope that in another year guides for the dissection of the above mentioned animals will be complete, and corrected to the stage where they could be printed. Photographs and drawings are being made as the work progresses, so that illustrations will be available. The guide for work on the sheep covers all parts, and has proven most helpful. A number of enquiries have been received from various parts of the United States regarding availability of this manuscript.

The time for research work has been very limited. The study of the mink, however, was continued to the end of the digestive and the respiratory tracts. In order to complete the study of the bones of the mink, a total of 30 complete skeletons (15 male and 15 female) have been prepared. Three of these have been set up and articulated. Considerable data on the genital tract of the mink have been collected, along with a sufficient number of specimens to complete the study of this system. When we decided to make more use of sheep in our laboratory we found very little descriptive literature available. Dr. B. J. McSherry has devoted all his spare time to preparing a text and dissection guide for the study of this animal. We find the sheep a very good specimen for laboratory work. During the spring term a comparison between the muscles of the fox and those of the dog was made. This information was multigraphed and used in our classes.

DEPARTMENT OF PREVENTIVE MEDICINE AND HYGIENE

SECTION OF BACTERIOLOGY

A. F. BAIN, B.V.Sc.

Most of the time of the section is devoted to teaching.

The course in bacteriology has been enlarged during the past year to include a series of introductory lectures given to the second year. This series consists of 30 one-hour lectures largely concerned with historical background and study of the elementary principles of the science.

The original lecture course is continued, with 2 one-hour lectures per week given to students of both third and fourth years. The course is so arranged that the material to be covered is presented in a lecture just before it is taken up in the laboratory.

The laboratory course in bacteriology has been completely revised. It is to begin after Christmas in the third year and continue to the end of the fourth year. It includes approximately 175 hours of work in the laboratory, of which the first 50 hours are devoted to a study of the principles of elementary bacteriology and to their application. Approximately 25 hours are assigned to the demonstration of various aspects of immunology. The final 100 hours are spent in the laboratory study of pathogenic bacteria and of clinical bacteriology.

The course in milk hygiene has also been completely revised. It now consists of 34 hours of lecture and laboratory time in the fourth year, and is devoted principally to the bacteriological examination of milk.

A lecture-laboratory course of 24 hours in antibiotics, has been added to the curriculum of the fourth year. In addition to study of the methods of preparation, it covers the various tests used to determine the activity of antibiotics in relation to specific organisms and diseases; and the methods of measuring the amount of active substance present in the various body fluids, in relation to dosage, method of administration, and elapsed time after administration.

Along with its teaching duties, the section is charged with part of the culture work in connection with the diagnostic service offered by the College. The work involved has been summarized in the following table:

	Cattle	Sheep	Horses	Swine	Dogs	Cats	Mink	Fox	Rabbits	Total
Pasteurella infection	8	3		11			1		3	26
Brucellosis	9									9
Cl. chauvoei infection	9									9
Cl. septicum infection	4									4
Cl. welchii infection	12	5								17
Corynebacterium pyogenes infection	10			6						16
Corynebacterium renalis infection	16									16
Br. bronchisepticus infection				2						2
Salmonella infection	2			3			1	3		9
Actinomycosis	6			1						7
Actinobacillosis	3									3
Actinomyces necrophorus infection	5									5
Streptococcus infections	9		6	6	3		8	4	2	38
Erys. rhusiopathiae infection				9						9
Tuberculosis	2			2			2	1		7
Johne's disease	7									7
Tetanus		1								1
Septiceamias of new-born animals	14	2		3						19
Calf penumonia	6	2								8
Calf-scours	8									8
Necrotic enteritis				12						12
Mastitis	4									4
Influenza			3							3
Distemper					1			1		2
Feline enteritis						3				3
Granular vaginitis	1									1
Rhinitis				6						6
Enteritis	2			6			1			9
Parasitism		1		1	2			1		5
Miscellaneous	32	5	14	18	22	6	17	19	3	136
Total										401

Besides the work summarized here, 172 miscellaneous bacteriological examinations have been made which could not be included in such a summary.

Thirty-four autogenous vaccines, of types unavailable from biological supply houses, were also prepared.

Thirty-nine serological tests were conducted on samples which the Serological Section is not equipped to examine.

DEPARTMENT OF CLINICAL MEDICINE

R. A. McIntosh, B.V.Sc., M.D.V.

The duties of this department consist of giving instruction in pharmacy, materia medica, special therapeutics; diseases of cattle, sheep, and swine; clinical instruction and surgical procedure in the aforementioned species of livestock; obstetrics and breeding hygiene, diseases and accidents related to pregnancy and parturition, artificial insemination, the examination of seminal fluid, pregnancy diagnoses; and instruction on the subjects of breeding diseases, sterility and infertility. This department also undertakes and accomplishes a considerable amount of extension work in the form of investigational visits to determine the nature of outbreaks of disease, as consultants in difficult and puzzling cases with practising veterinarians. Members of the department address meetings of veterinary associations, live stock organizations, and Junior Farmer short courses, on subjects related to veterinary science. Professional advice is given. Medicinal agents are dispensed to office callers, after a considerable volume of correspondence and the shipment of trial parcels of medicine. In addition to the foregoing duties, this department provides the veterinary service for the livestock belonging to the Ontario Agricultural College, and also assists the veterinarian of the Ontario Reformatory when such help is required. Finally, in the past year, this department has conducted 38 post-mortem examinations on cattle, 19 on sheep, and 154 on swine.

The personnel of the department and allocation of the work is as follows:

R. A. McIntosh—head of the department, instructor in materia medica and pharmacology, instructor in diseases of sheep and swine, instructor in special therapeutics, director of clinical instruction and medicine extension re investigation and addressing meetings.

J. A. Henderson—instructor in diseases of cattle; extension re investigation and addressing meetings; clinical instruction and extension clinical service.

C. A. V. Barker—instructor in obstetrics and breeding hygiene; clinical instruction and surgical demonstration; artificial insemination, pregnancy diagnoses; extension service in reproductive diseases.

F. E. Wagner—instructor and lecturer on pharmacy; student help for hospitalization service.

The following is a tabulation of the clinical service and the post-mortem cases submitted for examination:

CATTLE

No.	Nature of Cases	Treatment and Remarks
24	Sterility in cows:	
	4—No lesion or functional	Hormone injections, dietary regulation
	6—Nymphomania	Hormone injections, ovarian manipulation
	5—Anoestrum	Dislodgement of corpora lutea
	1—Ovarian adhesions	No treatment, permanently sterile
	1—Atresia of cervix	No treatment, permanently sterile
	1—Ovarian disease	Hormone injection, manipulation
	1—Cervicitis oophoritis	Hormone injection, manipulation

No.	Nature of Cases	Treatment and Remarks
	3—Genital atonicity	2—Hormone injections, 1—penicillin uterine infusion
	1—Ovarian dysfunction	No treatment—slaughtered
	1—Pyometritis	No treatment—slaughtered
25	Pregnancy diagnosis	Positive—16, negative—9
3	Infertility in bulls	Clinical and microscopic examination
	1—Testicular disease	Abnormal sperm, permanently infertile
	1—Testicular disease	Oligospermia, aged bull, slaughtered
	1—Testicular disease	Abnormal sperm, slaughtered
	Collection of semen	Student exercises—spring term
	Insemination of cows	Student exercises—spring term
15	Drawing blood	For blood count and agglutination tests
13	Dystokia	Manual correction—caesarean operation
3	Torsion of uterus	Operative correction—caesarean operation
10	Retained placenta	Manual removal—uterine antiseptics
4	Abortions	Hygienic supervision of patients
4	Metritis	Medicinal treatment—uterine evacuants
7	Hypocalcemia	Calcium gluconate—intravenous
11	Mastitis	Udder infusions—internal medication
12	Supernumerary teats	Surgical removal—excision
4	Teat injuries	Surgical and antiseptic treatment
3	Atresia—teat orifice	Incision of teat sphincter
1	Oedema—abdominal	Extension from mastitis
4	Infectious pododermatitis	Surgical and medicinal treatment
2	Lymphocytomatosis	Incurable
7	Abscessation	Surgical and antiseptic treatment
5	Papillomata	Surgical and vaccine treatment
2	Mechanical pneumonia	Medicinal treatment
	Dehorning	Operation on an adult Ayrshire bull
2	Chronic tympany	Medicinal and dietary treatment
2	Pulmonary emphysema	Medicinal treatment
2	Examination for health	For renewal insurance
3	Traumatic pericarditis	Treatment unsuccessful
1	Traumatic reticulitis	Medicinal treatment
2	Actinomycosis	Operative and medicinal
5	Inappetence	Tonics, diet supplementation
1	Fracture humerus	Patient kept confined
	Hygroma—shoulder	Rest—application of liniment
	Necrosis of mandible	Treatment unsuccessful
	Pseudomembranous enteritis	Medicinal treatment
3	Adult vaccination	Experimental
3	Myiasis	Parasiticidal application
3	Lacerated wounds	Surgical and antiseptic
2	Pyelonephritis	Penicillin treatment
1	Hydrops amnii	Kept for observation
1	Depravity of appetite	Cobalt supplementation of diet
6	Tumour—3 penial, 3 others	Surgical excision
1	Tuberculosis	Generalized case
41	Calfhood vaccination	Hypodermic inoculation
12	Calf scours	Medicinal treatment
14	Calf pneumonia	Medicinal treatment
10	Umbilical hernia	Surgical treatment
2	Atresia of the anus	Surgical treatment
4	Necrotic stomatitis	Medicinal and surgical
1	Gangrene of extremity	Medicinal and surgical
3	Navel infection—abscessation	Medicinal and surgical
3	Hemorrhagic septicemia	Medicinal and serum treatment
1	Ankylosis—femorotibial	Incurable

No.	Nature of Cases	Treatment and Remarks
1	Talipes varus	Surgical treatment
1	Dicephalus monstrosity	Lived one month. Died due to mechanical pneumonia
1	Congenital abnormality—penis	Incurable
1	Rupture—flexor metatarsi	Incurable
1	Curvature of tail	Surgical correction
36	Post-mortem examinations:	
	12—Calf scours	Representative of herd condition
	6—Calf pneumonia	Representative of herd condition
	6—Enterotoxemia	Single and several cases in six herds
	3—Hemorrhagic septicemia	Representative of herd condition
	1—Gastritis with perforating ulcer	Sporadic case
	1—Convulsion	Probably due to mineral deficiency
	1—Umbilical infection with septicemia	Sporadic case
	1—Necrobacillosis—generalized	Following necrotic stomatitis
	1—Necrotic enteritis	Several cases in one herd
	3—Blackleg	Herd outbreaks of the disease
	1—Tuberculosis	Generalized
2	Congenital deformities	Thoracopagus sp., nanosomus sp.
331		

HORSES

No.	Nature of Cases	Treatment and Remarks
6	Colic:	
	2—Gastric indigestion	Stomach lavage and medicinal
	2—Colon impaction	Cathartic bolus and medicinal
	1—Indigestion (colt)	Antiferments, laxative evacuants
	1—Gastric flatulence	Antacids, laxative evacuants
2	Abortion	Hygienic care and management
5	Retained afterbirth	Manual removal, hygienic care
2	Dystokia	Manual correction and handling
1	Artificial insemination	Capsule method
2	Foal septicemia	Antibiotic and bacteriostatic treatment
4	Castration	3—straight, 1—cryptorchid
3	Lymphangitis	Medicinal and nursing care
1	Laminitis	Medicinal and nursing care
1	Hematuria	Medicinal and laxatives
2	Septicemia (aged horses)	Antibiotic and bacteriostatic treatment
1	Abscessation (leg)	Antibiotics; patient died
1	Collar dermatitis	Antiseptics, hygienic care
6	Lameness:	
	2—Nail prick	Paring lesion—antiseptic pack
	1—Strain, fetlock region	Rest and topical applications
	1—Contracted hooves	Blister and run on pasture
	1—Strain of ligaments	Rest and topical applications
	1—Injury (carpal joint)	Rest and antiseptic applications
5	Parasitism, internal	Administration of anthelmintics
2	Periodic opthalmia	Medicinal and nursing care
2	Inappetence	Dental treatment and tonics
1	Pharyngitis	Medicinal treatment
1	Azoturia	Medicinal and nursing care
3	Wound	Antiseptic and surgical treatment
15	Anti navel-ill	Two inoculations of dam during pregnancy
8	Anti tetanus	Protective inoculations
21	Pregnancy diagnoses	17—Positive, 4—negative genital examinations
95		

SWINE

No.	Nature of Cases	Treatment and Remarks
35	Scrotal hernia	Surgical under local anaestheisa
20	Cryptorchidism	Surgical under general anaesthesia
6	Umbilical hernia	Surgical under local anaesthesia
3	Inguinal hernia (sows)	Surgical under local anaesthesia
3	Hermaphrodism	Surgical under general anaesthesia
3	Umbilical abscessation	Incision, drainage, antiseptic pack
1	Pharyngeal abscessation	Incision, drainage, antiseptic pack
3	Posterior paralysis	Calcium injections, nursing care
3	Prolapse of rectum	Surgical correction
4	Scrotal abscessation	Surgical—incision, drainage, antiseptics
2	Parturient hypocalcemia	Calcium injections
3	Serous effusion (subcutaneous)	Incision, drainage, iodine application
3	Agalactia after parturition	Intravenous pituitrin injections
1	Mastitis, chronic	Topical applications
4	Brucellosis	Serological test
40	Avian tuberculosis	Intradermal test: negative—38, positive—2
5	Swine erysipelas	Anti-serum injections, hygienic measures
139		

POST-MORTEM EXAMINATIONS—SWINE

No.	No. in Herds and Litters	Nature of Disease	Treatment Advised
20	402	Gastro-enteritis	Enteric vaccine, dietary regulation
11	213	Enteritis	Enteric vaccine, dietary regulation
12	431	Necrotic enteritis	Dietary regulation, Vit. B. supplement
8	146	Enterotoxemia	Laxative evacuants, regulate diet
4	42	Overfeeding and indigestion	Laxative evacuants, regulate diet
2	20	Necrotic stomatitis	Hygienic measures, antiseptic
4	4	Poisoning chemical	
2	18	Cerosan poisoning	Antidotes, laxatives
11	257	Dietary deficiencies	Vitamin, mineral feed supplement
10	126	Anaemia—suckling pigs	Iron supplement
24	191	Pneumonic disease	Hygiene, bacteriostatic, anti-serum
4	196	Hemorrhagic septicemia	Hygiene, bacteriostatic, anti-serum
4	110	Pericarditis, pleuritis, peritonitis	Hygiene, serological
8	70	Generalized infection	Hygiene, serological
4	51	Infectious arthritis	Hygienic measures
8	124	Infectious rhinitis	Hygienic measures
1	12	Swine erysipelas—chronic	Hygienic measures, antiserum
1	13	Constipation	Laxatives, regulate diet
2	75	Mange (sarcoptic)	Parasitide application
1	50	Parasitism, internal and external	Parasiticidal treatment
3	33	Dermatitis—suckling pigs	Topical application, Vit. B. therapy
2	18	Nasal necrobacillosis	Hygiene, antiseptics
4	100	Ascariasis	Ascaricidal treatment
3	28	Rickets (crippling)	Correct diet—Vit. D
154	2,720	24 Diseases	

SPECIMEN CASES OF THE ABOVE GIVEN EXPERIMENTAL TREATMENT

No.	Disease	Experimental Treatment	Result
1	Necrotic enteritis	Whole milk, shorts, Vitamin B	Recovery
1	Enterotoxemia	Cathartic oil-calcium injection	Died
2	Rickets case	Adequate ration, milk, Vitamins A and D	Recovery
1	Polyarthritis	Intraperitoneal injection sulpha	Recovery
1	Pleuro-pneumonia	Sulphonamide treatment	Died
1	Deficiency case	Adequate rations provided	No improvement

SHEEP CLINICS AND POST-MORTEM EXAMINATIONS

No.	No. in Flock	Nature of Disease	Treatment and Remarks
4	71	Parasitism	Anthelmintics
2	86	Enterotoxemia	Change diet
2	54	Pulpy kidney disease	Change diet—vaccination
1	19	Stiff-lamb disease	Dilute phosphoric acid
1	......	Stillborn lambs	Probable Vit. A deficiency
1	100	Lamb scours	Sulfonamide treatment
2	38	Pneumonic disease	Hygienic measures—inoculation
1		Pasteurella and necrobacillosis	Hygienic measures advised
1	20	Rhinitis and pneumonia	Hygienic measures advised
1		Lung abscess	
1	...	Injury to mammary gland	Surgical treatment
1		Intestinal volvulus	
1	...	Mastitis	Tyrothricin infusions
1	......	Inguinal abscess	Castration wound infection
1	1,100	Contagious ecthyma	Hygienic measures, antiseptics
2	......	Ketosis	Glucose, molasses, cobalt
23	1,488	16 Diseases	

Note.—In connection with the foregoing clinical data, 122 cases occurred in the livestock belonging to the Ontario Agricultural College and 25 cases in those belonging to the Ontario Reformatory.

From the clinical cases handled, and post-mortem examinations made, the following numbers of specimens were submitted to the technical departments to assist in or confirm diagnoses:

Bacteriological Department	Specimens, 78
Pathological Department	Specimens, 30
Hematological and Serological Departments	Specimens, 15
Mastitis Department	Specimens, 12
Chemistry Department	Specimens, 4

DIAGNOSTIC SERVICE

During the last few years there has been a growing demand for pregnancy tests in bred mares. This service is required by some of the breeders of light horses, but chiefly by the purchasers of pregnant mares who supply pregnant mares' serum to a number of leading firms engaged in the production of biological preparations. Urine is collected from the pregnant mares, sold to biological houses, which in turn process it for the extraction of certain hormones related to reproduction in both humans and animals.

There has also been a demand for the microscopic examination of semen obtained from males used for service. In this connection, through the use of a microscope which affords a visual inspection of the spermatozoa and other semen characteristics or abnormalities, a most effectual and reliable estimation of the sire's potency may be determined.

The policy followed in making pregnancy tests and semen examinations is to have the practising veterinarian obtain the samples required wherever it is possible to do so. The results of the tests are always submitted to him, and he delivers the information to his client.

The pregnancy test is accomplished by the use of the blood serum test which can be applied from the 40th to about the 120th day following conception. After the 120th day, the urine test is applied.

In the past year, 633 pregnancy tests were made. Of these 413 were blood serum tests, of which 245 were positive and 168 negative. The remaining 220 tests were made from urine samples. In this group 111 were positive and 109 negative.

In reference to semen, 48 samples from 23 different bulls were examined. There were also two samples from stallions. Only four of the 23 bull samples were considered normal. The remainder showed varying degrees of abnormality or pathogenicity, ranging from some specimens which were devoid of spermatozoa to 10% or less abnormal.

EXTENSION SERVICE DEPARTMENT OF MEDICINE INVESTIGATIONAL AND CONSULTATION VISITS

Date 1946	Locality	No. of Herd	Breed	Disease	No. Affected	Local Veterinarian
Apr. 17	Waterdown	125	Ayrshire	Sterility	15	Dr. Young
Apr. 29	Brampton	. .	Jersey	Tumour case	1	Dr. Stirk
May 10	Walkerton	25	Shorthorn	Sterility	6	Dr. Mullen
May 13	Brampton	. . .	Holstein	Peritonitis	1	Dr. Stirk
May 20	Brampton	..	Jersey	Tumour case	1	Dr. Stirk
June 20	Oshawa	50	Shorthorn	Abortion	7	Dr. Black
			Holstein	Calf pneumonia	3	Dr. Black
			Jersey	Calf scours	6	Dr. Booth
June 22	Guelph	50	Yorkshire	Pneumonia	2 litters	Dr. Cote
June 29	Mt. Forrest	14	Grade	....	3	Dr. Dippel
July 11	Woodstock	25	Shorthorn	Warts	5	Dr. Nurse
July 11	Harley	12	Shorthorn	Sterility	3	
July 14	Wingham	20	Shorthorn	Mastitis	3	Dr. Kirby
July 30	Paris	25	Holstein	Sterility	3	Dr. Walker
July 31	Maple	20	Holstein	Sterility	1	Dr. Reeds
Aug. 23	Ingersoll	40	Holstein	Enteritis	3	Dr. Murray
	Curries	40	Yorkshire	Sterility	4	
	Woodstock	......	Holstein	Hernia	1	Dr. Bickell
Aug. 24	Galt	......	Jersey	Ketosis	1	Dr. Donovon
Aug. 30	London	20	Shorthorn	Sterility	3	
Sept. 1	Nobleton	25	Guernsey	Hem. sep.	12	Dr. Webster
Sept. 14	Newmarket	7	Horses	Encephalomyelitis	4	Dr. Lockart
Sept. 27	Plattsville	75	Yorkshire	Rhinitis	Herd	Dr. Nurse
Oct. 12	Kitchener	80	Yorkshire	Rhinitis	30	
Oct. 14	Glandford Sta.	30	Holstein	Sterility	5	Dr. Corrigan
Nov. 2	Arthur	20	Grade	Rape poisoning	10	Dr. Lytle

Date 1946	Locality	No. of Herd	Breed	Disease	No. Affected	Local Veterinarian
Nov. 4	Guelph	35	Holstein	Abscess	1	Dr. Cote
Nov. 18	Brantford	50	Jersey	Traumatic reticulitis	1	Dr. Walker
Nov. 23	Ayr	1,100	Sheep	Ecthyma	250	Dr. Carey
Nov. 29	Brampton	50	Holstein	Sterility	6	Dr. Stirk
Dec. 3	Maple	75	Guernsey	Ketosis	1	Dr. Stirk
1947						
Jan. 15	Todmorden	125	Yorkshire	Hem. sept.	10	
Jan. 18	Clifford	80	Yorkshire	Rhinitis	nil	
Feb. 3	Ancaster	130	Yorkshire pigs	Arthritis	15	
Feb. 15	Brampton	......	Jersey	Lithiasis	1	Dr. Stirk
			Holstein	Infertility	1	Dr. Stirk
Mar. 14	Peterborough	150	Hereford	Calf scours	12	Dr. Worton
Mar. 20	St. Thomas	60	Holstein	Toxemia	3	Dr. Everett
The following investigations were made by Dr. Henderson:						
1946						
Sept. 25	Gorrie	30	Grade	Lymphocytoma	1	Dr. McLelland
Oct. 2	Listowel	25	Holstein	Plant poison	3	Dr. Coughlin
Nov. 29	Brampton	50	Holstein	Sterility	6	Dr. Stirk
1947						
Jan. 6	Lyndon	30	Ayrshire	Ketosis	2	Dr. Gillies
Feb. 19	St. Thomas	60	Holstein	Mange	20	Dr. Everett
Mar. 25	Newcastle	50	Holstein	Ketosis	10	Dr. Webster
Mar. 30	Guelph	25	Holstein	Ketosis	1	Dr. Cote
Mar. 31	Townsend	35	Holstein	Ketosis	2	Dr. Cote
The following by Dr. Barker:						
1946						
June 18	Thamesford	......	Holstein	Laryngitis	1	Dr. Atkinson
June 20	Richmond Hill	......	Angus	Traumatic pericarditis	1	Dr. Stirk

42 trips

SUMMARY OF INFERTILITY EXAMINATIONS—CATTLE

Herd Number	Date of Examination	Number of Animals Examined	Fertile Bulls	Infertile Bulls	Brucellosis Prevalent	No Lesions Functional Cases	Nodular Vaginitis	Cervicitis	Metritis	Tubo-ovarian Disease	Cystic Follicles	Retained Corpus Luteum	Pregnant
1	8- 5-46	2	......	......	......	......	......	......	......	......	1	1	......
2	18- 5-46	1	......	......	......	......	......	......	......	......	1	......	......
3	22- 5-46	1	......	......	......	......	......	......	......	......	1	......	......
4	28- 5-46	1	......	......	......	......	......	......	......	......	1	......	......
5	29- 5-46	1	......	......	......	1	......	......	......	......	......	......	......
6	17- 6-46	1	......	1	......	......	......	......	......	......	......	......	......
7	12- 7-46	13	2	......	yes	3	......	......	......	......	......	......	8
8	23- 7-46	25	......	1	yes	......	19	......	......	......	......	......	5
9	31- 7-46	1	......	......	......	......	......	......	......	......	1	......	......
10	22- 8-46	1	......	......	......	......	......	......	......	......	1	......	......
11	22- 8-46	2	......	......	......	......	......	......	......	......	2	......	......
12	29- 8-46	11	2	1	......	5	......	......	......	......	......	......	3
13	30- 8-46	5	......	......	......	1	......	......	......	......	1	......	3
14	30- 8-46	1	......	......	......	......	......	......	......	......	1	......	......

Herd Number	Date of Examination	Number of Animals Examined	Fertile Bulls	Infertile Bulls	Brucellosis Prevalent	No Lesions Functional Cases	Nodular Vaginitis	Cervicitis	Metritis	Tubo-ovarian Disease	Cystic Follicles	Retained Corpus Luteum	Pregnant
15	9– 9–46	1									1		
16	9– 9–46	1									1		
17	9– 9–46	1									1		
18	9– 9–46	1									1		
19	11– 9–46	9	1			4		1	1	1	1		
20	19– 9–46	1									1		
21	19– 9–46	1									1		
22	23– 9–46	9				3		1				5	
23	1–10–46	1									1		
24	2–10–46	6			yes		2			2	1		1
25	2–10–46	2							1				1
26	2–10–46	1									1		
27	2–10–46	1									1		
28	10–10–46	9										2	7
29	12–10–46	1									1		
30	12–10–46	1									1		
31	30–10–46	1									1		
32	30–10–46	30	1				29						
33	5–11–46	2										2	
34	15–11–46	2									2		
35	5–12–46	1									1		
36	18–12–46	11	1			5	1			2			2
37	20–12–46	1									1		
38	20–12–46	1									1		
39	13– 1–47	2							1				1
40	13– 1–47	20					20						
41	13– 1–47	2											2
42	14– 1–47	1							1				
43	15– 1–47	4				4							
44	15– 1–47	1					1						
45	15– 1–47	2							2				
46	15– 1–47	3	2	1									
47	16– 1–47	12				2							10
48	16– 1–47	5									3		2
49	23– 1–47	1									1		
50	28– 1–47	1									1		
51	28– 1–47	1									1		
52	28– 1–47	1									1		
53	28– 1–47	2				1					1		
54	28– 1–47	2							1			1	
55	28– 1–47	1										1	
56	19– 2–47	8			yes	1						3	4
57	14– 3–47	9				1					1	5	2
58	18– 3–47	1		1									
59	28– 3–47	1									1		
60	28– 3–47	1									1		
61	28– 3–47	1									1		
62	28– 3–47	1									1		
63	28– 3–47	1									1		
Totals		245	9	5		31	72	2	7	5	43	20	51

ARTIFICIAL INSEMINATION EXTENSION SERVICE

During the past year requests were received from artificial insemination units, veterinarians, and livestock breeders for semen diluting solutions and for information on the preparation and use of semen diluents.

A M/15 solution of sodium citrate was supplied, as an extension service, as follows:

Artificial Insemination Units: 46 lots, of 500 cc each.

Veterinarians and technicians: 5 lots, of 100 cc to 300 cc each.

For the dilution and storage of bull semen, an equal volume of fresh egg-yolk is added to the sodium citrate solution, followed by the addition of whole bull semen to make the required dilution.

INSPECTION OF SWINE HERDS FROM WHICH PIGS WERE CONSIGNED FOR THE BARRIE SALE

Date 1946	Herd No.	No. Pigs in Herd	Health Findings	Herd Sanitation	Decision
May 30	1	100	Some rhinitis sneezing and respiratory disease	Bad	Rejected
	2	40	No rhinitis	Fair	Accepted
	3	45	Some sneezing	Fair	Accepted
	4	60	No disease	Excellent	Accepted
	5	110	Sneezing and rhinitis	Very bad	Rejected
	6	35	No rhinitis	Good	No sale
	7	30	Some rhinitis	Bad	Rejected
	8	50	No rhinitis, little sneezing	Fair	Accepted
	9	100	No rhinitis	Good	Accepted
	10	27	Some rhinitis	Bad	Rejected
	11	70	No rhinitis	Fair	Accepted
May 31	12	60	No rhinitis	Fair	Accepted
	13	35	No rhinitis	Fair	Accepted
	14	40	No rhinitis	Fair	Accepted
	15	250	Little sneezing, no rhinitis	Good	Accepted
	16	40	No rhinitis	Fair	Accepted
	17	60	No rhinitis	Bad	Accepted
	18	45	No rhinitis, some mange	Bad	Accepted
	19	26	No rhinitis	Fair	Accepted
	20	25	No rhinitis	Fair	Accepted
	21	46	No rhinitis, some coughing	Fair	Accepted
	22	25	No rhinitis	Good	Accepted

Total number of herds inspected	22
Approximate number of hogs in herds inspected	1,319
Total number of herds rejected because of rhinitis	4

INSPECTION OF SWINE HERDS FROM WHICH PIGS WERE CONSIGNED TO THE WALKERTON AND GALT SALES

Date 1946	Herd No.	No. Pigs in Herd	Health Findings	Herd Sanitation	Decision
Sept. 5	1	100	No rhinitis	Bad	Accepted
	2	......	No rhinitis	Good piggery, sanitation excellent	
	3	......	No rhinitis	Fair	Accepted
	4	235	No rhinitis, pigs in good shape	Sanitation good, animal husbandry good	Accepted
	5	......	No rhinitis	Fair	Accepted
	6	60	A little sneezing, no distorted noses	Sanitation fair, pigs well kept	Accepted
	7	110	No evidence of rhinitis	Fair	Accepted
	8	60	A little sneezing, no distorted noses	Fair	Accepted
	9	40	No rhinitis	Bad, but pigs look good	Accepted
	10	40	Rhinitis and sneezing in two-months-old group	Not good	Rejected
	11	20	No rhinitis	Fair, but quarters small	Accepted
	12	30	No rhinitis, some coughing	Good	Accepted
Sept. 6	13	60	A little sneezing in one pen	Fair	Accepted
	14	25	No rhinitis	Fair	Accepted
	15	55	No distortion, a little sneezing	Good, everything clean	Accepted
	16	70	No evidence of rhinitis	Fair, pigs in good shape	Accepted
	17	50	A little sneezing	Bad, but pigs looked good	Accepted
	18	20	No rhinitis	Fair	Accepted
	19	35	No rhinitis	Good	Accepted
	20	100	No rhinitis, a little coughing	Good, pigs well kept	Accepted
Sept. 9	21	40	Some coughing	Fair	Accepted
	22	50	No rhinitis	Fair	No sale
	23	50	No rhinitis	Fair	Accepted
	24	100	Rhinitis	Fair	Rejected
	25	30	No rhinitis	Fair	Accepted
	26	70	Rhinitis prevalent, sneezing and distorted noses	Fair	Rejected
	27	80	One distorted nose; no sneezing, but some coughing	Fair	Accepted
	28	70	Some rhinitis, sneezing and coughing	Bad	Rejected
Sept. 10	29	40	No rhinitis	Fair, pigs well kept	Accepted
	30	110	No rhinitis	Bad	No sale
	31	80	No rhinitis, a little coughing	Good, pigs well cared for	Accepted
	32	40	No rhinitis	Bad	No sale
	33	32	No rhinitis	Good	Accepted
	34	40	No rhinitis, a little coughing	Good	Accepted
	35	60	No rhinitis, a little coughing	Fair	Accepted
	36	20	No rhinitis	Bad	No sale
	37	50	No distortion, a little sneezing	Bad	Accepted
	38	50	No sneezing, a little coughing	Bad	Accepted

Date 1946	Herd No.	No. Pigs in Herd	Health Findings	Herd Sanitation	Decision
Sept. 11	39	60	No rhinitis or sneezing	Bad, but pigs looked good	Accepted
	40	60	No rhinitis	Fair	Accepted
	41	12	No rhinitis	Fair	Accepted
	42	50	A little sneezing, no distortion	Fair	Accepted
	43	45	Rhinitis	Bad	Rejected
	44	30	A little coughing, no sneezing	Fair	Accepted
	45	30	No rhinitis	Very good	No sale
	46	30	No rhinitis	Fairly clean	Accepted
	47	50	Rhinitis	Very bad	Rejected
	48	40	No evidence of rhinitis other than a little sneezing	Fair	Accepted
	49	16	No rhinitis, but a little sneezing	Fair	Accepted
	50	35	No rhinitis	Fair	Accepted
	51	40	No rhinitis, pigs looked good	Bad	Accepted
	52	65	A little nasal distortion in a May litter; no sneezing or coughing	Good	Accepted

Total number of herds inspected	52
Approximate number of hogs in herds inspected	2,645
Total number of rejections because of rhinitis	6
Total number of herds showing sneezing	10

INSPECTION OF SWINE HERDS BY T. LLOYD JONES

Date 1946	Herd No.	No. Pigs in Herd	Health Findings	Herd Sanitation	Decision
Sept. 9	53	......	Rhinitis	......	Rejected
Sept. 10	54	......	Rhinitis	......	Rejected
	55	......	Some sneezing	......	Rejected
	56	......	No rhinitis	......	Accepted
	57	......	No rhinitis	......	Accepted
	58	......	No rhinitis	......	Accepted
	59	......	No rhinitis	......	Accepted
	60	......	No rhinitis	......	Accepted

INSPECTION OF SWINE HERDS FROM WHICH PIGS WERE CONSIGNED TO THE KEMPTVILLE SALE

Date 1946	Herd No.	No. Pigs in Herd	Health Findings	Herd Sanitation	Decision
Oct. 16	1	45	Rhinitis and sneezing	Good; pens clean and comfortable	Rejected
	2	40	No evidence of rhinitis	Fair, but pens dirty	Accepted
	3	60	No evidence of rhinitis	Bad; pens dirty, pigs crowded	Accepted
Oct. 17	4	40	Rhinitis, sneezing, distorted noses	Fairly good; pens clean and comfortable	Rejected
	5	121	No evidence of rhinitis	Bad; pens dirty and poorly arranged	Accepted
	6	75	No evidence of rhinitis	Bad	Accepted
	7	35	No evidence of rhinitis	Fair; pens kept clean	Accepted
	8	30	No rhinitis, but short noses	Fair; pigs clean and comfortable	Accepted

NOTE.—Owing to the number of rejections, those having authority over the sale decided against proceeding with it, and no further inspections were made in that area.

Total number of herds inspected	8
Approximate number of pigs in herds	446
Total number of herds rejected, rhinitis	2
Total number of herds showing sneezing	2

INSPECTION OF SWINE HERDS FROM WHICH PIGS WERE ENTERED IN THE ROYAL AGRICULTURAL WINTER FAIR

Date 1946	Herd No.	No. Pigs in Herd	Health Findings	Herd Sanitation	Decision
Oct. 17	1	35	No evidence of rhinitis	Fair; pens kept clean	Accepted
	2	30	No rhinitis, but short noses	Fair; pens clean and comfortable	Accepted
Oct. 19	3	26 (Isolation farm)	No evidence of rhinitis	Good; pens clean and comfortable	Accepted
Oct. 21	4	100 (2 farms)	No rhinitis, short noses	Fair; pens clean but crowded	Accepted
	5	56	No evidence of rhinitis	Fair; pigs healthy	Accepted
	6	75	Rhinitis prevalent	Fair, but some pens crowded	Rejected
	7	50 (2 farms)	No rhinitis, but nasal discharge	Fair; pens clean and comfortable	Accepted
Oct. 22	8	60	No evidence of rhinitis, short noses	Not good; pens dirty	Accepted
	9	100	Rhinitis, prevalent sneezing	Fair, but pigs crowded in pens	Rejected
	10	60	No evidence of rhinitis	Fair, but pens badly arranged	Accepted
Oct. 23	11	30	No rhinitis, some crippling	Very bad; pens filthy	Accepted
	12	35	No rhinitis, but coughing	Very bad; pens filthy	Accepted
Oct. 24	13	60	No evidence of rhinitis	Fair; pigs healthy	Accepted
	14	10	Rhinitis, distorted noses	Fair; pens clean	Rejected
	15	50	No rhinitis	Good; pens clean; pigs healthy	Accepted
	16	60	No rhinitis, but sneezing	Good; pens clean; pigs healthy	Accepted
	17	45	No evidence of rhinitis	Fair, but pens rather dirty	Accepted
	18	22	No evidence of rhinitis	Not good, but pigs healthy	Accepted
	19	25	No evidence of rhinitis	Fair; pens clean	Accepted
	20	75	No evidence of rhinitis	Bad; pens dirty and crowded	Accepted
	21	60	No evidence of rhinitis	Fair; pens clean; pigs healthy	Accepted
Oct. 28	22	60	No evidence of rhinitis	Fair; pens clean; pigs healthy	Accepted
Oct. 29	23	200	No rhinitis, a little coughing	Good; pens clean; pigs healthy	Accepted
	24	100	No evidence of rhinitis	Bad; pigs dirty, but healthy	Accepted
Oct. 29	25	90	No evidence of rhinitis	Not good, but pigs healthy	Accepted
Oct. 30	26	100	No rhinitis	Bad	Accepted
	27	60	No rhinitis	Fair	Accepted
	28	100	No rhinitis	Good	Accepted
	29	70	No rhinitis	Good	Accepted
Oct. 31	30	140	No evidence of rhinitis	Fair; good pens but badly managed	Accepted

Date 1946	Herd No.	No. Pigs in Herd	Health Findings	Herd Sanitation	Decision
	31	30	No evidence of rhinitis	Not good, but pigs healthy	Accepted
Nov. 7	32	25	No evidence of rhinitis	Fair; pens clean; pigs healthy	Accepted

Total number of herds inspected	28
Approximate number of pigs in herds inspected	2,039
Total number of rejections because of rhinitis	3

The swineherd inspections in the foregoing tables were done at the requests of the Yorkshire Breeders' Associations and the Royal Winter Fair authorities, in order to prevent the spread of infectious diseases through the sale or exhibition of disease-carrying animals.

ADDRESSES GIVEN AT MEETINGS OF VETERINARY ASSOCIATION LIVE STOCK ORGANIZATIONS AND FARMERS' SHORT COURSES

Date 1946	No.	Name of Organization	Title of Address	Locality
By Dr. R. A. McIntosh:				
	1	Lincoln Holstein Breeders	Hygiene, Abortion, Mastitis	Chippawa
May 10	2	Grey Holstein Breeders	Hygiene, Abortion, Mastitis	Owen Sound
	3	Holstein Breeders	Hygiene, Abortion, Mastitis	Smithville
Sept. 16	4	Nova Scotia Vet. Association	General Therapeutics	Truro, N.S.
	5	Ontario Vet. Association	Deficiency Problems	Guelph
Oct. 1	6	Wentworth Holstein Breeders	Mastitis	Hamilton
Oct. 4	7	Swine Producers	Prevention of Disease	Toronto
Dec. 13	8	Perth Shorthorn Breeders	Abortion, Warble Fly	St. Mary's
Dec. 16	9	Waterloo Shorthorn Breeders	Abortion	Kitchener
1947				
Jan. 8	10	Elgin Short Course	Prevention of Disease	Dutton
Jan. 9	11	Western Ontario Short Course	Prevention of Disease	Ridgetown
Feb. 12	12	Crops, Seeds and Weeds Branch	Pasturage for Cattle	Toronto
Feb. 20	13	Peel Short Course	Prevention of Disease	Brampton
Mar. 13	14	Western Ontario Vet. Assoc.	Mastitis Discussion	Woodstock
By J. A. Henderson:				
1946				
Sept. 16	15	Ontario Vet. Association	Ketosis	Guelph
Oct. 1	16	Wentworth Holstein Breeders	Mastitis	Hamilton
Oct. 22	17	Maple Breeders Unit	Breeding Problems	Maple
Dec. 7	18	Brockville Breeders Unit	Breeding Problems	Brockville
Dec. 27	19	Wellington Holstein Breeders	Breeding Methods	Fergus
1947				
Jan. 7	20	Guernsey Breeders Association	Breeding Methods	Toronto
Jan. 27	21	Ayrshire Breeders Association	Breeding Methods	Waterdown
Feb. 27	22	Elgin Holstein Breeders	Breeding Problems	Aylmer
Mar. 13	23	Western Ontario Vet. Assoc.	Diagnosis of Pregnancy	Woodstock
Mar. 18	24	Shorthorn Breeders	Breeding Methods	Hagersville
By C. A. V. Barker:				
1946				
Sept. 16	25	Ontario Vet. Association	Artificial Insemination	Guelph
Oct. 22	26	Maple Breeders	Infertility	Maple
1947				
Jan. 31	27	Ontario Vet. Association	Infertility	Ottawa

SURGERY

W. J. R. Fowler, V.S., B.V.Sc., D.V.M.

Geo. Cairns, D.V.M., M.R.C.V.S.

This department is again indebted to the many practitioners who have submitted a variety of cases during the past term. We have had cases shipped by rail from points as far distant as Montreal, and Massachusetts, U.S.A. The added advantage of having the College stock truck at our service for the procuring of clinics has been most helpful.

The following cases were dealt with:

No.	Nature of Cases	Treatment
14	Cryptorchids	Castration under general anaesthesia
2	Cystic ovaries	Oophorectomy using a combination of chloral hydrate intravenously along with epidural anaesthesia
2	Colts	Castrated in standing position under local anaesthesia
5	Poll evil	Radical operation under general anaesthesia
14	Roaring	Ventriclecomy under local anaesthesia
1	Sterility	Hormone treatment
6	Navicular	Neurectomy
1	Tendinitis	Firing and blistering
5	Bone spavin	Cunean tenotomy and periostotomy—2 Blistering—3
3	Bog spavin	Blister
5	Thoroughpin	Aspirated and blistered—1 Blistered—4
1	Laminitis	Systemic treatment
5	Malignant growths	Surgical removal—3 Inoperable—2
2	Gonitis	Blistered
2	Side bones	Blistered and hoof grooved
1	Locomotor ataxia	Advised euthanasia
1	Paraphimosis	Irrigation and systemic treatment
3	Osselets	Firing and blistering
1	Umbilical cyst	Lanced
2	Abscess of withers	Lanced
1	Ringbone	Fired and blistered
1	Dermatitis	Systemic treatment
1	Scirrhous	Amputation under general anaesthesia
2	Sesamoiditis	Fired and blistered
1	Carpitis	Fired and blistered
1	Osteo-perostitis of the metacarpals	Blistered
1	Laryngeal stenosis	Tracheotomy
3	Stringhalt	Peroneal tenotomy
1	Lymphangitis	Systemic treatment
1	Foreign body in foot	Surgical removal under local anaesthesia
1	Curb	Firing and blistering
1	Septic arthritis	Systemic treatment
3	Enalel points	Molars dressed
1	Elongated molar	Cut and dressed
2	Canker	Cautery and antiseptic dressings
2	Hip lameness	Blistered
1	Rhinitis	Systemic treatment
6	Contracted feet	Grooved and blistered
1	Chronic enteritis	Systemic treatment
4	Worms	Worm capsules administered

111—Total number of cases

Four horses suffering from poll evil and fistula of the withers were found to give a positive reaction to the blood test for Bang's disease.

PENICILLIN IN BOTRIOMYCOSIS

A six-year-old Percheron gelding was sent in to one of our clinics for diagnosis and treatment. The owner stated that he had noticed a small swelling on the horse's breast, which had gradually increased in size during the past 12 months, and was now interfering with the horse's gait. He wanted to know if anything could be done for the animal.

A single, tumor-like, fairly dense, deep seated, cold swelling, about 12 inches in diameter and showing a number of suppurating foci, was plainly visible over the point of the breast. The condition was diagnosed as botriomycoma and this was confirmed by bacteriological examination. Due to the extent of the swelling, it was not considered advisable to attempt incision.

It was decided to try penicillin in the treatment of this case. One million units were given daily in divided doses: the first dose being given intravenously, and subsequent doses intramuscularly. This was repeated on three successive days. After two days' rest, one million units were given daily in divided doses for two days. Some of these injections were made directly into the substance of the swelling.

After a period of two weeks, the swelling had greatly subsided and the horse was discharged. Dr. Stirk, of Brampton, later reported that the swelling had entirely disappeared.

DEPARTMENT OF PARASITOLOGY AND FUR BEARING ANIMALS

A. A. Kingscote, V.S., D.V.Sc.

During the past fiscal year the staff of this department has engaged variously in teaching, research and extension work.

Three hundred and ninety-four lectures and laboratory exercises were prepared and given. Fifty-five research and extension projects were initiated, commenced or completed. Three thousand, eight hundred and twenty-one individual autopsies or laboratory examinations were made. Approximately 200 farms were visited. Three exhibits were designed and set up. Sixteen manuscripts were written and published. The number of doses of biologics dispensed was 47,372. Outside trips were made by various members of the staff, in connection with extension work or conferences, to Manitoulin and Prince Edward Islands, Toronto. Montreal, Ottawa, and the districts of Kingston, North Bay, Owen Sound, and London.

STAFF

The staff of the department in the early part of the year comprised three graduate veterinarians and one stenographer. In January, one graduate, H. J. Griffiths, B.S.A., M.Sc., D.V.M., Ph. D., resigned. During the summer months a post-graduate student was attached, two under-graduates employed, and a permanent technician appointed. In the winter, part-time student labour was supplied to assist in routine laboratory chores and tests.

SUMMARY OF PARASITOLOGICAL INVESTIGATIONS CONDUCTED BETWEEN APRIL 1, 1946, AND MARCH, 1947

	Horses	Cattle	Sheep	Swine	Poultry	Dogs	Cats	Miscel-laneous	Totals
Post-mortem examinations		6	66	3	15	3	......	22	115
Examination of tissues or organs	203	2	7	5	2	1	......	22	242
Skin scrapings for mange and ringworm	4	3		6		15	8	4	40
Fecal examinations	11	54	17	8		304	3	18	415
Protozoan identifications		9	1	2	3	16	......	7	38
Helminth identifications	7	2	343	1	4	6	......	4	367
Arthropod identifications	4	3			1	7	......	43	58
Miscellaneous investigations	4	9	6	5	4	7	1	10	46
Totals	233	88	440	30	29	359	12	130	1,321

EQUIPMENT

Numerous items of essential modern laboratory equipment required for routine, research, and teaching purposes were added to the department's stock. Such equipment included compound and stereoscopic microscopes, incubators, refrigerators, centrifuges, scientific and surgical instruments, and ware.

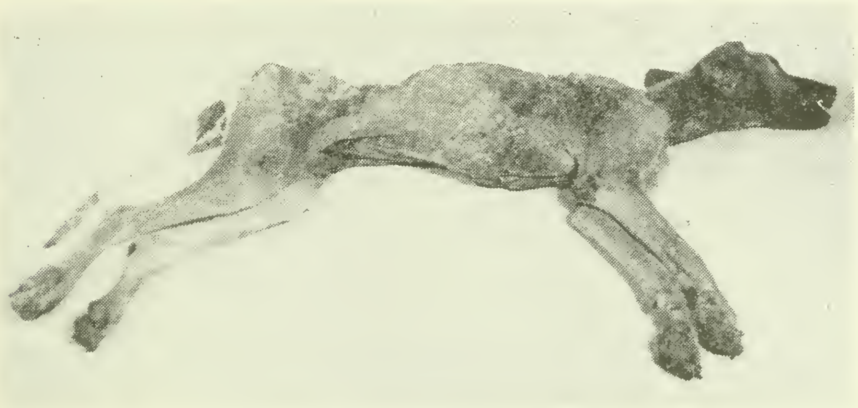

FIG. 1.—A fatal case of demodectic mange. This case was used to demonstrate the disease to classes taking courses in parasitology. An abundance of mites was recovered from the skin lesions on this dog.

ACADEMIC PROJECTS—PARASITOLOGY

Complete courses in veterinary protozoology and veterinary entomology were given to delegated classes. Owing to adjustments in the curriculum, no courses were given in helminthology during the year. All lecture courses were revised and brought up to date. Progress has been made in increasing aids to visual teaching. In this connection, 225 permanent museum preparations were mounted. Additions to pictures of clinical cases of parasitism now bring the collection up to 450 individual photographs. Wall charts have been designed and made for the majority of blood parasites. A project to make large scale models of common parasites was commenced and is still under way. Numerous additions have been made to a library of kodachrome, black and white lantern slides; and film strips have been ordered. The lantern slides included several hundred taken over from the Provincial Zoologist's collection and about 100 presented to the department by the Mount Sinai Medical Research Foundation. A collection of instruments for applying parasiticides has been made, and also one of commercial parasiticides.

PROVINCIAL PROGRAMME FOR CONTROL OF PARASITES OF ECONOMIC IMPORTANCE

A study of the losses caused by parasitism in the province has been made. It is estimated that the annual actual losses through disease and death from parasitism amount to $4,000,000. A potential loss of $20,000,000, annually, exists.

Short term and long term programmes of parasite control, aimed at a reduction of the above mentioned losses, have been planned. Posters and a pamphlet on the seasonal control of sheep parasites have been prepared, published and distributed throughout Ontario.

PROTOZOAN DISEASES

The majority of laboratory investigations have been concerned with the routine diagnoses and recommendation for control. Apart from the avian forms of coccidiosis, infestation has been recorded in cattle and sheep; and

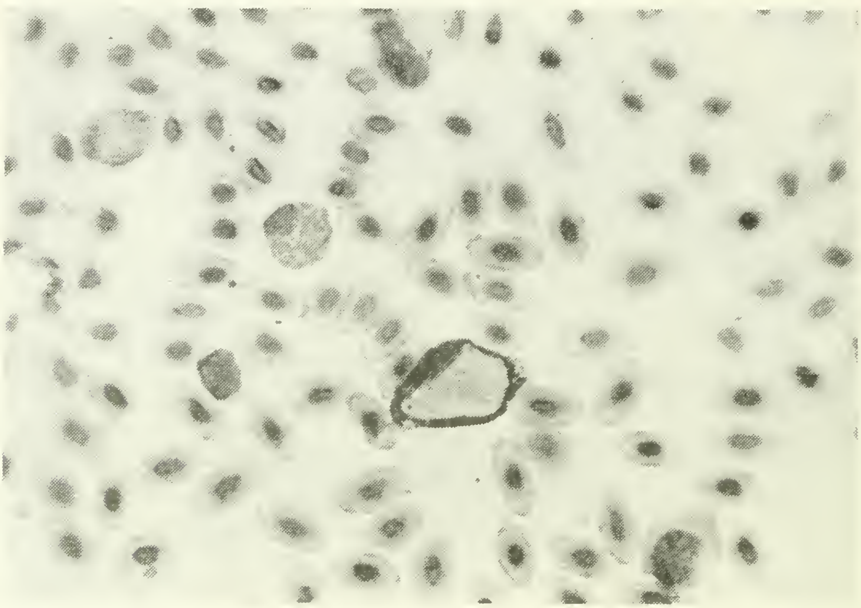

FIG. 2.—Blood study of leucocytozoon infection in turkeys. The large body surrounded by a dark band is the protozoan.

appears to be on the increase among dogs—especially in breeding kennels. Two cases of suspected amoebic dysentery in pigs were investigated. Special studies were made of bovine trichomoniasis from cultures obtained from abroad and from an indigenous enzootic. Leucocytozoon infections in turkeys were studied in living birds and in stained blood preparations.

AN EXPERIMENT TO ASCERTAIN THE VALUE OF ATABRINE IN THE CONTROL OF BLACKHEAD

Experiments to prevent and control blackhead in turkeys, by adding 1.5 grains of Atabrine to each gallon of drinking water and by keeping this before birds at all times, from hatching to three months of age, failed to show any protection or curative value. Treated birds were markedly lighter in weight than the untreated controls kept under identical conditions.

ARTHROPOD DISEASES

Routine identifications and recommendations for control have formed the greater part of the year's work in this field.

An unusual case of a horse infested with vast number of small fungus-feeding beetles was investigated. These insects were found to belong to the genera, orthoperus, ptenidium, and melanophthalma. It was ascertained that the species were harmless and had probably been attracted to microscopic moulds contained in the fabric of the blanket.

Observations on the incidence of myiasis caused by cuterebra showed an increasing number of infections in small animals. The grubs were collected chiefly from dogs and rabbits. Single large specimens were removed from

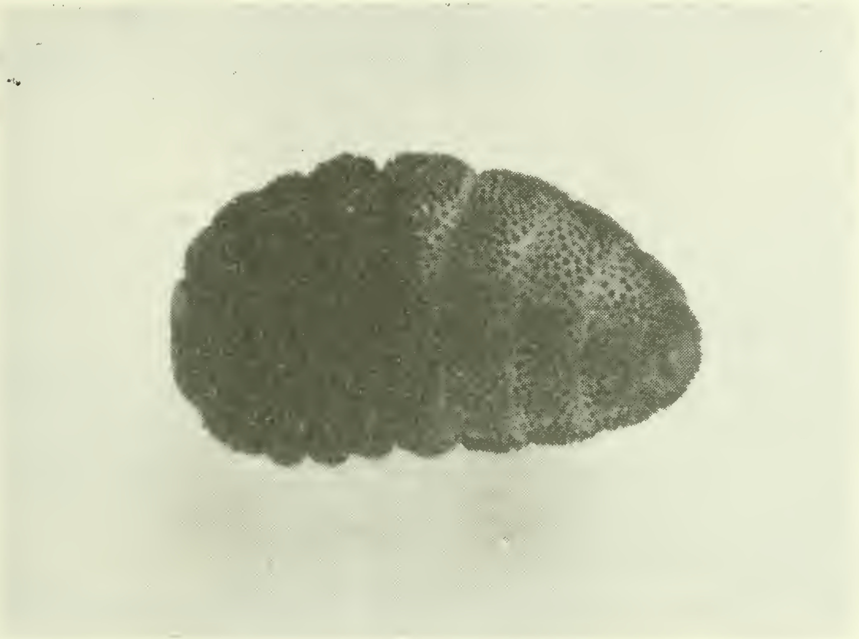

FIG. 3.—Larva of a cuterebra fly removed from an abscess in the throat of a dog.

abscesses in the throat—except in one instance where the lesion was on the side of a dog's thorax. Attempts to raise the flies and study their life cycles have so far been unsuccessful.

Observations on the incidence of wohlfahrtia vigil revealed no cases of disease caused by this fly during the year in fur animals or children. Recommendation for the use of DDT on fur farms was made, with the object of controlling this particular parasite which has caused havoc on fur farms in the past.

HELMINTH DISEASES

The most significant observation during the year has been the establishment of the existence in Canada of the highly pathogenic nematode trichostrongylus tenuis in geese. One case of canine echinococcosis was recorded; and an investigation into a liver fluke enzootic commenced. Faecal examinations indicate a considerable increase in whipworm and hookworm infestations in kennel-raised dogs, over those recorded in pre-war years. Helminth infections on fur farms have become, in the modern ranches, almost negligible. Routine identifications and recommendations for control have formed again the bulk of work in this field.

Viscera from 200 horses were obtained from animals being slaughtered in Saskatchewan for overseas export. The object of this project was to procure specimens for teaching purposes. The number of species obtained was negligible. The majority of parasites were bots and the usual flora of strongyles. No cestodes were discovered and a special search for dictyocaulus arnfieldi and habronema spp. proved negative.

SURVEYS OF PARASITISM IN DOMESTIC ANIMALS

Surveys were made of sheep helminth parasites on Manitoulin Island; the incidence of parasitic diseases in a number of fur farms; and liver flukes in the Burwash area.

TRICHINOSIS SURVEY IN RATS

Preparations were made for examining rats from various sections of Ontario for trichinosis and leptospirosis infections. The number of rats received, however, was small and insufficient for the assembling of any significant data.

STUDIES UPON RECENTLY DEVELOPED ANTHELMINTICS

Considerable data have been collected on the above developments, and progress made in bringing the departmental library up to date, with reprints, monographs and text books dealing with the subject. New anthelmintics have been tested in the field and in clinics as opportunities arose, with the object of gaining first hand information as to the efficacy of such drugs. The drugs involved include di-phenthane, sodium fluoride, phenothiazine, etc. Supplies of hexachloroethane have been obtained, and will be tested in planned fluke control projects in cattle and sheep.

SODIUM FLUORIDE TREATMENT FOR ASCARIDS IN SWINE

Trials were arranged and conducted on more than 100 pigs. The treatment, as recommended by the U.S.D.A., was found effective and safe when conducted in detail according to the directions.

LIVER FLUKE CONTROL IN THE BURWASH AREA

This project was started near the end of the fiscal year. An initial survey revealed that beef cattle and sheep were infested with flukes. In March, the disease could only be diagnosed by post mortem examination. No eggs were found in the droppings of cattle, sheep, elk, or buffalo in the area. Aerial photographs of the district were obtained; and from a study of these, recom-

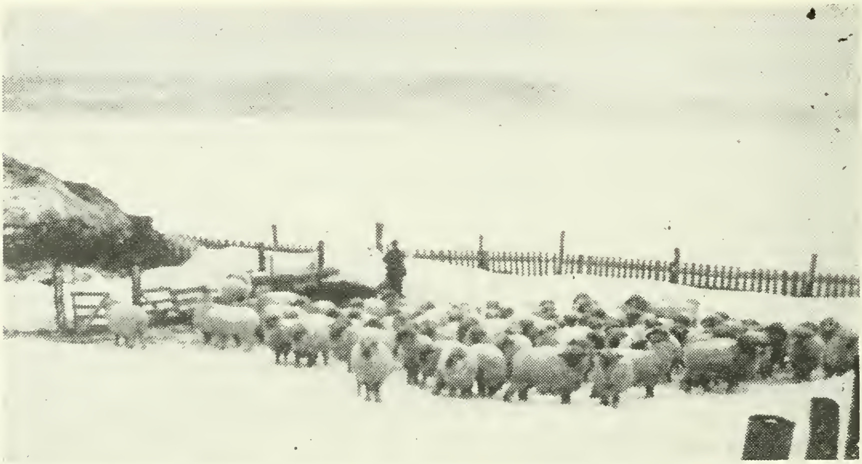

FIG. 4.—An infected flock of sheep in a liver fluke enzootic area in Northern Ontario. The low-lying fields in the background are typical of the pastures in which infection occurs.

mendations were made for the treating of streams and dusting of wet places with copper sulphate to control snail intermediate hosts. The feasibility of dusting the area from the air was investigated, but was discovered to involve too much expense to be economically justifiable. A supply of hexachloroethane has been received from Texas, and will be tested as a treatment during the forthcoming year.

FIG. 5.—A sick buffalo in the liver fluke enzootic area in Ontario. This animal, in common with cattle and sheep in the area, was found to have been infected.

STUDIES OF NEW INSECTICIDES

Literature on, and supplies of technical or commercial DDT, benzine hexachloride (666), 1068, Lethane A70, Rutgers 612, DMT and DBT, etc., were obtained. These were tested in various degrees in the field or clinics as the opportunity arose.

STUDIES OF DDT TOXICITY IN CATTLE

Five head of cattle were subjected to spraying with excessive quantities of DDT suspensions. No ill effects were observed following the application of from seven to nine gallons. Tests to ascertain the amount of 50 per cent wettable DDT which cattle could ingest revealed that the animals used could tolerate up to 514 mgm/kg before showing tremors, and recovered after 1,100 mgm/kg.

STUDIES OF DDT TOXICITY IN TURKEYS

Several experimental studies were completed on the above subject at the request of the Ontario Turkey Breeders' and Growers' Association. The problem arose from a plan to use DDT extensively on turkey farms in controlling flies, and indirectly in controlling helminth parasites of which flies are the intermediate hosts. Lethal doses were established and the effect studied of using DDT in dusts, paints, dips, and food. The resistance of poults to DDT aerosols and ingestion of DDT killed flies were also investigated. The tests indicated that turkeys could tolerate far greater quantities of DDT than they are likely to obtain under field conditions of application. The greatest danger was demonstrated to be in experimentally contaminated edible oils made available with the food.

STUDIES ON THE EFFICACY OF DDT IN DESTROYING CATTLE GRUBS

The work of other investigators was confirmed as to the negative value of DDT in destroying fourth and fifth instars of warbles. A heifer infested with 48 warbles was scrubbed three times at weekly intervals with a five per cent wettable DDT suspension. No grubs were destroyed.

DDT PREPARATIONS—EFFICACY TESTS

A number of DDT preparations were obtained and tested under various conditions, chiefly with the object of gaining first hand information on their use and value. Personnel of the department supervised spraying of certain Ontario Provincial Government buildings for fly and roach control. Methods of applying the spray followed studies made in India two years previously in connection with anti-malarial control work. The results of fly control in dining rooms, dairy barns, piggeries, and abattoirs were excellent. Roach control was not completely effective, especially in kitchens and bakeries where heat from the ovens was continuous and intense.

THE USE OF DDT ON FUR FARMS

Recommendations were made for choice of suitable preparations and methods of application. Fur farmers were warned of the danger of using oily preparations of DDT directly upon their animals.

TRIALS TO ESTABLISH THE VALUE OF DDT AEROSOLS IN VETERINARY PRACTICES, IN LABORATORIES AND ON FARMS

The aerosol insecticidal bombs were developed early in the war to replace liquid sprays. The Preventive Medicine Division of the Surgeon General's Office (U.S.A.) recognised the value of aerosols, which have proved their worth in controlling malaria mosquitoes. A large scale experiment showed that 27,000,000 cubic feet of factory could be cleaned of flies and mosquitoes without interfering with the workers. Pan-American Airways have adopted the bombs for fumigating their planes.

In view of the successes attained in other fields, trials were initiated to establish the uses to which these bombs might be applied in veterinary science. Twelve bombs were supplied to individuals, together with a questionnaire. Eleven of the questionnaires were returned completed. The answers indicated that all who had used the bombs preferred them to hand sprays, and found them exceedingly efficient in causing a quick knock-down of flies in dwellings, offices, laboratories, dairy barns, horse stables, and piggeries. When used according to directions, the aerosols were effective also in roach control. No ill effects were observed following their use. Two observers, however, found remaining in sprayed rooms objectionable.

It is suggested that veterinarians would find the use of aerosols invaluable in quickly ridding operating rooms, hospitals, etc. of flies and other susceptible insects, and in clearing stables of flies before commencing tuberculin tests or the bleeding of animals for blood samples.

It is recommended that use be made of aerosols when quick knock-downs are required, and at other times, in combination with residual insecticides.

STUDIES ON THE EFFECT OF DDT UPON ISOPODS

The destructive efficacy of DDT was confirmed. In this work the value of isopods was established, as an arthropod group easy to obtain and maintain at all seasons of the year for use in biological tests.

STUDIES ON THE TREATMENT OF DDT POISONING

Tests were made, to control experimentally produced DDT tremors in cattle and turkeys with nembutal and calcium gluconate. Results were unsatisfactory with the birds, and inconclusive with the cattle.

RINGWORM CONTROL

A new treatment was originated and found permanently effective in the control of this disease in two Siamese cats.

PUBLICATIONS

Sixteen manuscripts were prepared and published, or submitted for publication, as follows:

GRIFFITHS, H. J., 1946—(1) A Record of Trichostrongylus Tenuis from the Domestic Goose in Canada (submitted to Journal of Parasitology); (2) A Preliminary Survey of the Helminth Parasites of Lambs from Manitoulin Island, Ontario; (3) A Summary on the Use of Phenothiazine in the Control of Cecal Worms and in the Prevention of Blackhead (Canadian Journal of Comparative Medicine, Vol. 10, No. 8, pp. 218–221).

KENNEDY, A. H., 1946—(1) Nutritional Anemia in Minks (Canadian Silver Fox and Fur, Vol. 2, No. 4, pp. 7–8); (2) Common Headaches Encountered During the Breeding Season (Ibid., Vol. 12, No. 6, pp. 20–23); (3) Fallacies That May Prove Costly to the Fur Farmer (Ibid., Vol. 12, No. 6, pp. 26–29).

KINGSCOTE, A.A., 1946—(1) A Case of Pseudo-Parasitism Caused by Fungus Feeding Beetles (Canadian Journal of Comparative Medicine, Vol. 10, No. 6, p. 168); (2) A Preliminary Report on the Effect of DDT Upon "Sowbugs" or "Woodlice" (Oniscoida), (submitted to Canadian Entomologist); (3) Report Upon Experiments Conducted to Establish The Tolerance of Turkeys to DDT (Canadian Journal of Comparative Medicine, Vol. 10, No. 8, pp. 211–219); (4) Observations Upon the Effect of Spraying Cattle

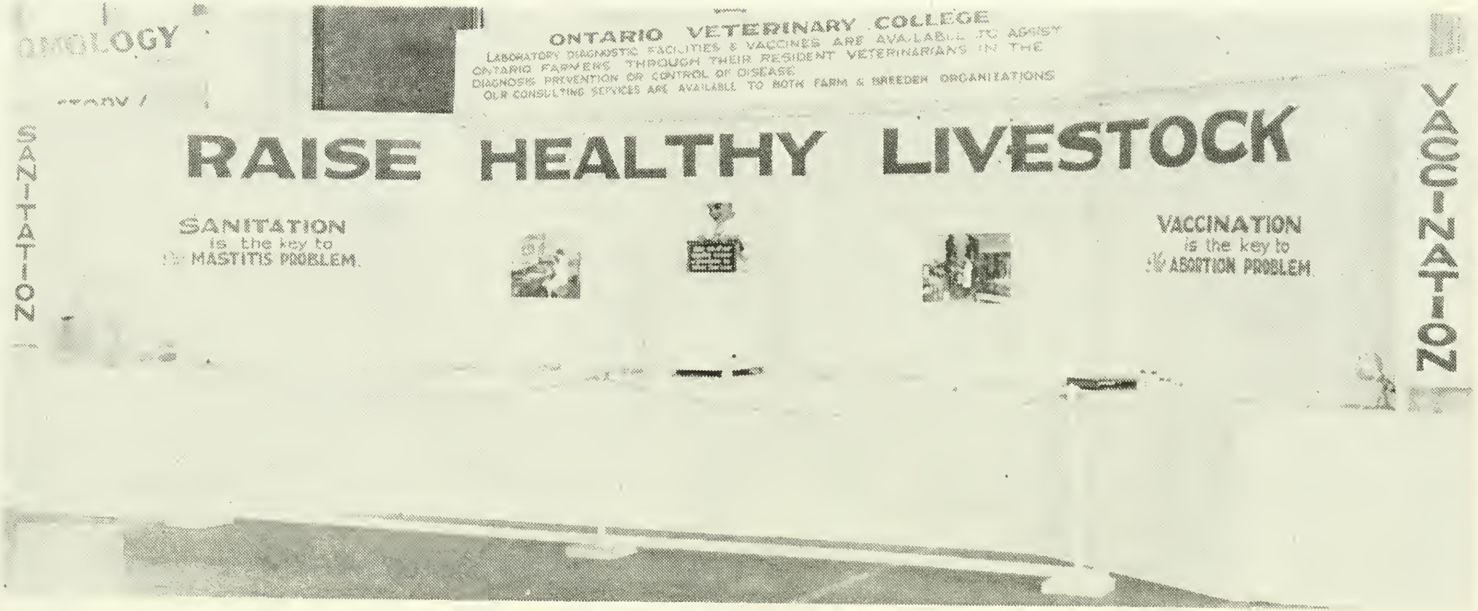
OMOLOGY
ONTARIO VETERINARY COLLEGE
LABORATORY DIAGNOSTIC FACILITIES & VACCINES ARE AVAILABLE TO ASSIST ONTARIO FARMERS THROUGH THEIR RESIDENT VETERINARIANS IN THE DIAGNOSIS PREVENTION OR CONTROL OF DISEASE. OUR CONSULTING SERVICES ARE AVAILABLE TO BOTH FARM & BREEDER ORGANIZATIONS
SANITATION
RAISE HEALTHY LIVESTOCK
SANITATION is the key to MASTITIS PROBLEM
VACCINATION is the key to ABORTION PROBLEM
VACCINATION

FIG. 6.—An exhibit designed and set up for the Ontario Veterinary College by personnel of the Department of Parasitology and Fur Bearing Animals.

with Excessive Quantities of DDT and Black Disinfectant (Ibid., Vol. 10, No. 11, pp. 323–324); (5) Further Observations Upon the Tolerance of Cattle to DDT (Ibid., Vol. 10, No. 12, pp. 348–349); (6) Fox Distemper Discussed (Canadian Silver Fox and Fur, Vol. 12, No. 10, pp. 70–76; Vol. 12, No. 11, pp. 30–38); (7) Facts About Fox Distemper Prevention (Ibid., Vol. 12, No. 12, page 16); (8) DDT and Mink (Ibid., Vol. 12, No. 7, page 18); (9) The Control of Sheep Stomach and Nodular Worms (Ontario Department of Agriculture, Extension Circular, No. 74, March, 1947); (10) Program of Sheep Parasite Control (Ontario Department of Agriculture, Poster, March, 1947).

EXHIBITIONS

College exhibits were designed and set up for the Royal Winter Fair, Farm and Home Week, and the College Royal.

FUR BEARING ANIMALS

A. H. Kennedy, B.S.A., V.S., D.V.M., D.V.Sc.

In the past fiscal year the work has steadily increased. It has been conducted under the following headings:

DIAGNOSTIC WORK

During the year 975 post mortems were made on fur bearing animals. Six hundred and seventy-one epithelial tissue smears were prepared and examined for the diagnosis of distemper. Six hundred and fifty-three tissue sections were examined. Three hundred and forty-one letters were written to veterinarians and fur farmers, regarding the husbandry or disease control of fur bearing animals.

Three outbreaks of distemper occurred on fox ranches in Ontario. Seventeen outbreaks of distemper occurred on mink ranches. Two hundred and one complete examinations were made on the blood of fur bearing animals.

The following table presents the number of diseases among the various species of fur bearing animals, examined at the Ontario Veterinary College, during the fiscal year commencing April 1, 1946, and ending March 31, 1947.

TABLE I

Name of Disease	Foxes	Mink	Rabbits		Chinchillas	Miscellaneous Fur Bearing Animals	Totals
			Angoras	Other Breeds			
Pneumonia	6	35	....	5	1	....	47
Peritonitis	..	3	....	....	....	....	3
Food poisoning	13	38	....	3*	....	....	54
Distemper	107	66	....	....	....	....	173
Nervous conditions	11	....	....	....	....	....	11
Boils	..	40	....	1	....	....	41
Bacterial infections	5	3	....	6	....	13	27
Nursing sickness	....	14	....	....	....	...	14
Pregnancy disease	....	11	....	....	....	....	11
Jaundice	4	3	....	....	....	....	7
Tail chewing	1	38	....	....	....	....	39
Nutritional anemia	....	8	...	....	....	....	8

NAME OF DISEASE	FOXES	MINK	RABBITS		CHINCHILLAS	MISCELLANEOUS FUR BEARING ANIMALS	TOTALS
			ANGORA	OTHER BREEDS			
Anemia of mutant fox pups	29	....	....	....	....	....	29
Throat infections	....	10	....	....	..	....	10
Eye infections	....	4	3	1	2	...	10
Cystic calculi	....	23	....	....	....	...	23
Cannibalism	....	1	....	....	....	...	1
Convulsions	2	4	....	...	....	....	6
Abscess	.	1	....	3	....	....	4
Indigestion	6	11	1	6	....	....	24
Injuries	5	5	1	3	....	...	14
Surgical	..	...	....	....	....	12	12
Ear Canker	6	..	....	....	....	..	6
Consultation	47	85	....	17	....	.	149
Tuberculosis	...	5	....	....	....	.	5
Parasites	1	1	....	....	....	1	3
Putrid	1	14	....	....	....	..	15
Vitamin B deficiency	2	15	....	....	....		17
Indigestion	....	2	....	2	16		20
Fatty degeneration	5	22	....	....	1	....	28
Coccidia	....	.	3	1	....	....	4
Heat prostration	....	3	....	....	....	....	3
Intussusception	7	....	....	....	....	...	7
Snuffles	....	....	....	15	....	....	15
Eye conditions	6	2	....	1	1	....	10
Nutritional conditions	....	9	2	1	5	2	19
Nephritis	1	.	....	....	3	....	4
Streptococci infections	3	10	....	....	....	....	13
Malnutrition	8	....	1	....	...	....	9
Mating troubles	2	9	13	....	5	...	29
Monstrosities	....	3	....	....	....	...	3
Toxemia	4	15	2	....	....	..	21
Undiagnosed	2	3	1	....	....	....	6
Salmonella infection	2	9	..	....	....	...	11
Metritis	....	3	....	2	....	....	5
Teeth	....	....	....	3	2	....	5
TOTALS	286	528	27	70	36	28	975

*Wry neck.

The figures in this table record the disease or condition affecting the animals. In many cases, more than one animal was autopsied or examined before a diagnosis was made.

EXTENSION WORK

One hundred and nineteen fur farms were visited during the year. Four articles relating to phases of fur farming were prepared by members of the department and published in fur journals. Seven addresses were given at fur breeders' meetings and veterinary short courses. Members of the department were official veterinarians at the Ontario Live Fox Show, held at Brampton, Ontario, and at the Live Mink Show, held at Bridgeport, Ontario.

Discussions on diseases of fur bearing animals and demonstrations on the handling and restraint of, and administering of medicines to fur bearing animals were given at the Annual Short Course held at the College.

During the year, 634 letters were written advising fur farmers and veterinarians on the handling and control of diseases affecting fur bearing animals. The following table presents a list of these:

TABLE II

Letters	Foxes	Mink	Rabbits		Chinchillas	Miscellaneous Fur Bearing Animals	Totals
			Angoras	Other Breeds			
Tail chewing	1	7	....	....	....	....	8
Tuberculosis	....	1	....	....	....	....	1
Food poisoning	3	30	2	2	....	....	37
Distemper	20	52	..		....	3	75
Raising and ranching	12	10	120	115	29	34	320
Nursing sickness	....	5	....	....	....	....	5
Laboratory service	....	2	....	....	....	....	2
Heat prostration	....	1	....	....	....	....	1
Snuffles	....	....	2	15	....	....	17
Boils	....	4	....	2	....	....	6
Coccidiosis	....	....	....	1	....	....	1
Nutritional anemia	....	7	....	....	....	....	7
Indigestion	2	4	....	3	1	....	10
Miscellaneous	....	1	....	....	....	1	2
Cystic calculi	....	11	....	....	....	1	12
Salmonella infection	11	1	....	....	....	....	12
Jaundice	2	1	....	....	....	....	3
Genetics	....	1	....	....	....	....	1
Avitaminosis	1	15	....	....	....	....	16
Bacterial infection	1	7	....	1		....	9
Pneumonia	1	20	....	3		2	26
Nervousness	1	....	....	....	....	....	1
Pest control	....	....	....	1	....	....	1
Fatty degeneration	....	2	....	....	....	....	2
Hair ball	....	....	1	....	....	....	1
Stomach condtions	1	....	....	....	....	....	1
Miscellaneous	....	1	....	....	....	16	17
Throat conditions	....	3	....	....	....	....	3
Diahorrea	....	1	....	....	....	....	1
Anemia in platinum foxes	17	....	....	....	....	....	17
Abnormal conditions	....	1	....	....	....	....	1
Parasites	....	5	....	1	....	....	6
Tumour	1	....	....	....	....	....	1
Wry Neck	....	....	3	1	....	....	4
Nephritis	....	1	....	....	....	....	1
Breeding Troubles	....	3	....	....	....	....	3
Placental haemorrhage	....	1	....	....	....	....	1
Pregnancy disease	....	2	....	....	....	....	2
Totals	74	200	128	145	30	57	634

INVESTIGATIONAL WORK

As time and facilities permitted, investigational work was carried out on some conditions and diseases affecting fur bearing animals.

Considerable work was done on the so-called anemia of mutant foxes. When animals affected with the disease could be procured, the history and nature of the disease were recorded, and macroscopic and microscopic studies made. While the disease has been designated as an anemia, it was found that the primary condition is not anemia. Anemia is rather only one of the symptoms associated with the disease. The nature of the disease was found to be that of a profuse hemorrhaging through the blood vessels or capillaries, into the surrounding tissues. In many cases, considerable amounts of free blood were observed seeping into the lumen of the stomach and intestines. The affected foxes become weak from a continual loss of blood and literally bleed to death internally. It is felt that some form of eradication of the disease must be undertaken in the way of breeding or selecting strains of mutant foxes (particularly platinums) that are resistant to the condition; or in the way of finding some therapeutic measure that will prevent the seepage of blood from the vessel walls.

Papers on these studies are being prepared and will be available for distribution. These papers describe the findings and results of the work conducted upon this disease. It is planned to continue experimental work on diseases during the summer of 1947.

Blood Findings in Fox Distemper

Studies on the blood of foxes affected with a neurotropic form of fox distemper were made during an epizootic on a fox ranch. A marked lymphopenia in the blood of the affected animals was found. Papers presenting the findings on the various aspects of the epizootic are being prepared for publication.

Bacterial Flora of Normal Fox Lungs

At pelting time, a number of lungs were obtained from normal, healthy foxes, for the study of the bacterial flora. It is planned that the work will be continued, in order that a thorough survey may be made of the bacterial flora of the normal fox lungs as found in foxes throughout the Province of Ontario.

Tip Chewing in Foxes, and Tip Chewing and Fur Clipping in Mink

Tip chewing in foxes was quite prevalent during the past year. Tip chewing and fur clipping in mink have been prevalent on numbers of mink ranches during past years. Both cause considerable damage to fur. Data was gathered on variations in rations, given to both fox and mink on both free and afflicted ranches. Indications are that the conditions are of nutritional origin. The investigations will be continued during the coming year.

Urinary Bladder Calculi in Mink

Considerable data has been collected on this condition in mink. Various types and formation of calculi have been collected for further studies. Field treatments, mostly of vitamin feeding, are being tried out to prevent further losses. The investigation will be continued.

Boils in Mink

Mink breeders have been troubled with boils affecting their animals. The condition is now more prevalent than in former years. An investigation into the bacterial flora of the boils, their development and effect, has been undertaken. Vitamin and sulfa drug therapy has been tried out. The investigation is being continued.

Snuffles in Rabbits

A large number of rabbits are lost each year from this disease. Rabbit breeders have requested assistance in controlling this disease.

Treatment with sulfa drugs and autogenous bacterins with promising results has been investigated. Investigation work on this disease will be continued.

Diseases of Chinchillas

Studies and information on chinchillas have been collected during the year. These animals present a new field for disease investigation. Studies of skin conditions of unknown etiology, teething troubles, and intestinal complications caused by ingestion of Fuller's earth are under observation.

Posterior Paralysis of Mink Caused by Heavy Horse Meat Feeding

During the year, particularly last fall, a number of mink were brought to the College showing a semi-paralysis of the hind quarters. Often a black, tarry diarrhoea was in evidence. The mink would die in a few days' time.

Autopsies revealed a dark, greyish-yellow fat, with small petechial hemorrhages in the fat around the kidneys and mesentery. The stomach, in most cases, was ulcerated. The spleen was enlarged. The liver usually showed fatty degeneration; and the walls of the intestines were thickened.

Indications are that the condition is of nutritional origin. On checking the diets fed these mink, it was found in practically all cases that horse meat constituted the major portion of the diet. When 65 per cent or over of the ration was horse meat, the condition was found to occur. In some of the ranches, it was found that 70 to 90 per cent of the ration was horse meat. On ranches where the meat portion of the ration was made up of horse meat, when fish, tripe, or beef was added so that the horse meat was reduced below 65 per cent of the ration, the condition did not occur in the mink.

In the ranches on which the condition existed, it was recommended that the amount of feed be considerably reduced for 10 days' to two weeks' time, and that tripe or fish be added to the horse meat so that it would be reduced to at least 65 per cent or less of the ration. The addition of cereal (20 to 25 per cent) and vegetables (five to eight per cent) was advised.

FOX AND MINK BLOOD BANK

Preliminary work was done regarding the procurement of blood from foxes and mink to establish a blood bank at the College. The blood bank will make blood sera available for treatment of animals affected with debilitating diseases, where homologous serum would be indicated as a useful therapeutic aid. It is possible that blood may be procured from foxes and mink at pelting time. Ranchers, however, raised a number of objections to the suggestion that blood be obtained from their animals at pelting time. They generally disliked interference at pelting time, because it would slow up progress when high price help is being employed, and because of the fear of furs becoming spotted with blood.

Foxes proved poor bleeders. Under suction only a few cubic centimeters of blood were obtained from the heart of each animal. Mink are usually killed with cyanide gas which makes their blood unsuitable for therapeutic uses. Further investigation is being planned for suitable means of procuring blood, for the establishment of a blood bank for foxes and mink.

BIOLOGICAL PRODUCTS

Thirty-two thousand doses (or 64,000 cc.) of formol tissue vaccine were imported for the mink distemper bank kept at the Ontario Veterinary College, Guelph, during the fiscal year. Thirteen thousand, nine hundred and thirty-seven doses (or 27,875 cc.) were released to mink ranches for the control of distemper outbreaks. Four mink ranches obtained formol tissue vaccine from the College for immunizing their mink against distemper.

One thousand, four hundred and thirty-five doses of fox distemperoid were released for the immunizing of foxes against distemper.

One thousand, five hundred and fifty cc.'s of autogenous bacterins were prepared and released to veterinarians for the control of bacterial diseases on fur farms.

TUTORIAL WORK

The course on fur bearing animal husbandry and diseases was given to the senior class at the College. The class had an opportunity of visiting some fur farms for the purpose of studying at first hand the methods used in housing, feeding, and caring for mink and foxes, and an opportunity of observing the various breeds and types of foxes and mink that are being raised on Ontario fur farms. Visits to fur farms by the senior class covered one and one-half days.

The class also attended the Live Mink Show held at Bridgeport, Ontario. These visits afforded an opportunity for students to meet a number of the fur farmers and to discuss with them the various phases of fur farming. The trips were highly instructive to the class. The keen interest displayed by the students, and the kindliness shown by the ranchers during these visits, tend to develop a confidence toward building a better veterinary service between the fur rancher and the veterinarian.

During the year, a graduate student pursued studies on fur bearing animals on a scholarship that was made available by the Ontario Fur Breeders' Association. His course of study has been completed and his services are available for work on diseases of fur bearing animals.

In January, a graduate veterinarian from Denmark spent some time at the College studying diseases of fur bearing animals.

DEPARTMENT OF PATHOLOGY

F. W. Schofield, D.V.Sc.

INVESTIGATION AND RESEARCH

During the year a number of outbreaks of disease occurring among livestock were investigated. The results of these investigations have been briefly summarized for this report.

Acute Pulmonary Emphysema in Cattle

A herd of twelve cattle of different ages, some lactating, some dry, was suddenly affected by an acute respiratory disease which the local veterinarian believed to be hemorrhagic septicemia. The usual treatment was given but without appreciable results. Two of the affected animals had died within 48 hours of the onset of the disease.

Investigation revealed that the cattle had been transferred to a luscious pasture of second growth alfalfa five days prior to the appearance of the disease. Examination of the living cattle, as well as observations at post-mortem, strongly indicated that the herd was suffering from acute pulmonary emphysema. The rapid and distressed breathing, the absence of temperature, the rapid pulse, the constipation and slight jaundice all suggested emphysema. The affected cows all showed a low level of blood phosphorous.

Swamp Fever or Infectious Anemia of Horses

Almost every year an outbreak of this disease occurs in some part of the province. During the present year three outbreaks were investigated, two of which were in parts of the province previously free from infection.

(*a*) *The Delhi Outbreak.* This occurred on a tobacco farm and among four horses purchased from a dealer in the spring of the year. Two horses had died and another was acutely ill. The fourth, an old horse, was unaffected. The clinical history of the disease in the horses which had died was typical of swamp fever, and the symptoms manifested in the sick animal, extreme weakness, elevated temperature, incoordination of movement, all suggested swamp fever. The sick horse was destroyed and buried and the owner advised to immediately dispose of the remaining horse, which was in poor condition, for fox feed. The premises were thoroughly disinfected. Fortunately, there was no need for horses to work the farm for some months.

(*b*) *The Kincardine Outbreak.* This was a serious outbreak, as it involved the owner in heavy loss which, to his great credit, he preferred to accept rather than spread the disease by the sale of horses from the farm. An interesting feature of the outbreak was the fact that a "carrier" horse introduced the infection. This "carrier" had been purchased from a dealer known to have swamp fever on the premises. The carrier horse showed no symptoms of disease for about one year after the purchase, but died of typical swamp fever in 18 months. Four out of eight horses on the farm became infected, all showing symptoms characteristic of swamp fever. Daily readings showed occasional rise in temperature in the remaining horses. Rather than spread the disease by sale, the owner destroyed these animals although they were in good condition at the time of slaughter. The premises were thoroughly disinfected, white-washed, and limed.

Penicillin was given to one of the affected horses, in an intramuscular injection every four hours of 200,000 units, for a period of three days. No permanent cure was affected, although the symptoms subsided for a short period.

(*c*) *Outbreaks at Cochrane and Desert Lake.* A serious outbreak of swamp fever occurred in this area of Northern Ontario during the summer months. Some 20 or more horses died of the infection. An interesting feature of this outbreak was the unusual virulence of the virus. Some of the affected horses died within two weeks after the first symptoms had been noticed. Also some of these horses seemed to be in great pain, moving constantly from foot to foot as if suffering from laminitis.

The post-mortem examination of a horse which had died with the acute form revealed lesions of septicemia. The viscera were covered with ecchymoses and petechial hemorrhages; lymph nodes were swollen and hemorrhagic. The spleen was greatly enlarged and pulpy, and the kidneys showed acute nephritis. Thrombosis was a prominent characteristic, multiple tiny thrombi being present in the liver and large thrombi in the spleen. There was much evidence to indicate the outbreak was related to the sale of sick or unthrifty horses from some of the large lumber camps. Supervision of the sale of horses by dealers and lumber camps should be established.

Bracken Poisoning

An unusual disease occurred among young cattle grazing on pasture in the vicinity of Stayner. The disease was characterized by elevation of temperature to 105 or 106°F in some animals; by petechiae on the nasal mucosa and in the mucous membrane of the vagina and eye. The appetite was poor and the animals showed loss of condition. A post-mortem examination of an animal which had been dead for some time showed the presence of hemorrhages throughout the carcass. When the pastures in which these cattle had been grazing were examined, large quantities of bracken fern were discovered. The season had been dry and the pastures were poor. There is little doubt that the cause of the disease was the animals feeding on the ferns.

Experiment. Approximately 100 pounds of the fern was fed to a yearling heifer over a period of one month. The animal lost condition, but showed no symptoms of disease. It was difficult to get the heifer to eat much bracken, as the plant is not palatable. Only when pasture is poor will cattle graze on the bracken. Other investigators state that a minimum of 200 pounds is necessary to produce symptoms.

Coccidiosis in Sheep and Calves

Outbreaks of coccidiosis are not infrequent in young cattle in the province, but the presence of the disease in lambs is rare.

(*a*) A flock of about 100 ewes and lambs was pasturing on a large grass farm with adequate range and rolling land. The water supply was totally inadequate and even dangerous. It consisted of a pond, fed by a small stream which dried up during the hot summer months. Several lambs had been found dead in the pasture. Sick lambs did not show the usual symptoms of bloody diarrhoea, but showed stupor, slight temperature, anorexia and remained standing in the same location for hours at a time. Post-mortem examination revealed severe enteritis especially in the jejunum where colonies of the coccidia could be seen in the mucous membrane. The lambs were removed from the pasture and there were no further losses.

(*b*) The owner of a valuable Jersey herd reported two deaths among young calves out at pasture. Several of the others were scouring and falling off in condition. One of the dead calves was disinterred, and a portion of the floating colon and rectum forwarded to the College for examination. The fecal matter was found to be teeming with coccidia. The remainder of the herd was given sulphathaladine for several days and removed to another pasture. The results were highly satisfactory.

Coli-granuloma in Turkeys

(Hjarre and Wramby's disease) This interesting disease, recently described by Hjarre and Wramby in Sweden, was recognized in diseased turkeys which were shipped to the College from a ranch in Manitoba. This is the first time that the disease has been reported from North America.

History. The owner of the ranch reported very heavy losses among turkeys in 1943 and again in 1945. The veterinarian, Dr. Arbuthnot, who examined the dead birds, noticed lesions in the liver which closely resembled

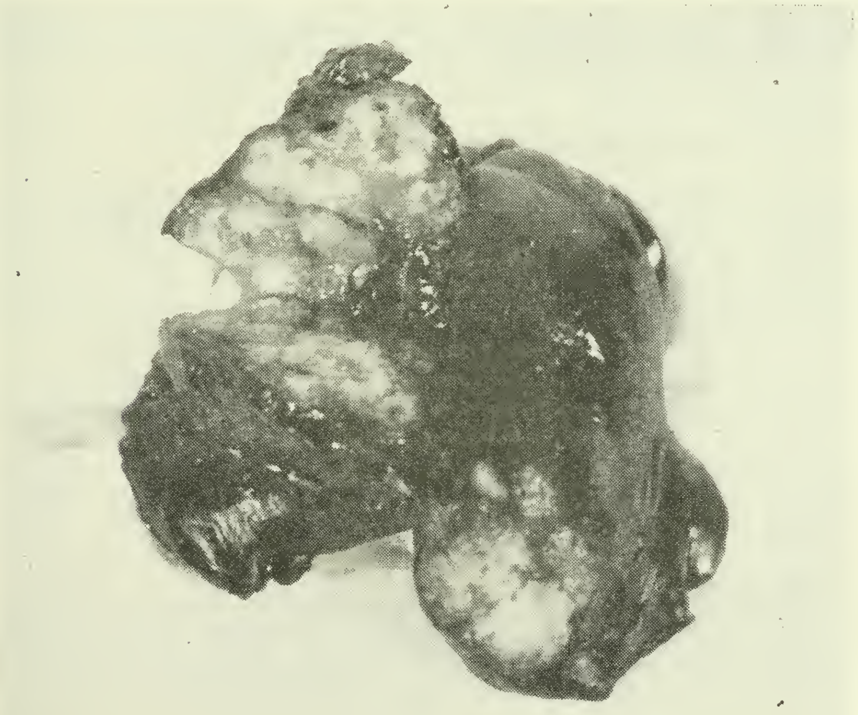

FIG. 7.—Hjarre and Wramby's disease (Coli-granuloma). Liver of turkey showing granulomatous lesions.

tuberculosis. Sections of tissue were prepared by Dr. Savage, Provincial Veterinarian. Although the histological picture closely resembled that of tuberculosis, no tubercle bacilli could be demonstrated.

Etiology

The cause is a mucoid type of E.coli, with which the disease may be readily reproduced.

It is important to recognize the fact that, in the gross, the lesion is frequently indistinguishable from that caused by the tubercle bacillus. Even microscopically the resemblance remains, in that the essential feature is necrosis with endothelial and giant cell infiltration of the tissue.

Equine Virus Abortion

During the past ten years abortion among mares has from time to time been reported to the department. A number of post-mortem examinations have been made but in no case have significant organisms been isolated. In the majority of the cases the tissues have been sterile. Some 35 years ago, contagious abortion among mares, due to S. abortivo-equinus, was quite common. There is no doubt that the contagious equine abortion at present is of virus origin. Clinically there are no constitutional symptoms. The aborting mares show little or no effect from the abortion. The placentae membranes show the typical oedema of the walls of the blood vessels, which is apparently specific for virus abortion. Tissue vaccine was prepared and used in one outbreak. The owner was highly satisfied with the results, since the abortions ceased following the vaccination. Controls were, however, inadequate, so conclusions of value cannot be made.

Trichomonas Fetus Abortion in Cattle

After many unsuccessful attempts during the past few years to find the trichomonas fetus in herds where the history and clinical picture were highly suggestive of this infection, we were rewarded during the past year by discovering the parasite in the uterine discharge of a heifer which had aborted early in pregnancy. The bull had a suspicious record in two previous herds. The heifers either failed to conceive or aborted during the first month or two. The abortions were followed by a purulent discharge. In the present herd, out of 24 cows and heifers bred, the 19 heifers either aborted or failed to conceive. The five old cows all conceived and are advanced in pregnancy. The trichomonas could not be demonstrated in the prepuce of the bull.

It is of interest to note that this is the first time that the parasite has been demonstrated in Ontario and possibly in the Dominion.

Bovine Hemoglobinuria

Further experiments were undertaken in connection with this interesting and prevalent disease. A detailed report will be published elsewhere. Only the most significant findings will be given brief mention here.

(*a*) Cattle feeding on rape or kale have a tendency to become anaemic as well as to suffer from hemoglobinuria. As symptoms are not present in most cases, the anemia would not be detected. The discovery was made in routine examination of the blood of healthy animals pasturizing on rape.

(*b*) Four stabled animals, when given an exclusive diet of turnip-tops for 15 days, showed no symptoms of red water; nor were there any significant changes in the numbers or quality of the erythrocytes. When the same animals were placed in a field of rape, on a farm where the disease is prevalent, hemoglobinuria developed within 10 days.

(*c*) A careful histological examination of the tissues of animals suffering with hemoglobinuria shows areas of superficial necrosis of the mucous membrane of the small intestine.

The cause of the lysis of the red blood cells remains unknown. An enterotoxin may be the etiological agent in some cases.

"Sudden Death" in Calves

During the last two winters we have been requested to investigate the cause of a mysterious disease affecting calves. The disease is characterized by sudden onset and equally sudden death. An animal perfectly well is affected, and within 15 minutes to an hour is dead. The only symptoms are those of great pain evidenced by loud bawling, difficult respiration and struggling. Post-mortem examination reveals congestion of the mucous membrane of the intestine and congestion with limited hemorrhage in the lungs. The kidneys and liver are usually hyperanemic. The heart muscle may show pale areas, especially in the inter-ventricular septum. Histologically, there is evidence of myocardical degeneration and necrosis, with some areas of calcareous infiltration. The kidney shows extensive cloudy swelling and necrosis of the epithelium.

In all cases the feed has been exceptionally good, and deficiencies in vitamin or minerals most improbable. We are at present unable to state the cause of the disease. There is no evidence of general infection, but an enterotoxin may be present. (An article by Vater and Records, in the March A.V.M.A. Journal, describes this disease with the title, "Muscular Dystrophy in Calves".)

"Stiff Cattle Disease"

In the Annual Report, 1939, we reported the occurrence of a disease among calves which we believed to be analogous to the well-known disease of lambs, i.e., white muscle disease or "stiff lamb disease". Similar cases were seen during the summer.

History. Ten cows with nursing calves were turned out to pasture late in May. The age of the calves varied from six weeks to two months. The day was warm and fine, and the calves were noticed to frolic freely. On the second day after the cows and calves had been on grass, one of the calves was found dead. On inspection, six of the remaining calves were noticed to be stiff, and walked with difficulty, lying down frequently. Clinical examination revealed nothing unusual. The temperature was normal, the pulse and respiration only slightly elevated and there was no articular pain. The calves nursed readily if assisted, but after standing for a few minutes would fall down and try to continue nursing from the recumbent position. Dilute phosphoric acid was given in full dose for several days, and all had recovered within 10 days. Unfortunately, no post-mortem was made of the calf which died, so that muscular lesions were not demonstrated in the gross. The symptoms however, were identical with those seen in stiff lamb disease and with those seen previously in white muscle disease of calves.

Feed. The cows had been wintered on hay and silage with no grain or mineral.

Phosphorus. Samples of blood were tested for inorganic phosphorus and found well below the normal range, i.e., 1.75–3.1 m.g. per cent.

Penicillin in the Treatment of C. Pyogenes Mastitis

C. pyogenes undoubtedly causes one of the most serious infections when it gains entrance to the tissues of the mammary gland. There is at present no satisfactory treatment. Penicillin (100,000 units) was administered intramuscularly every four hours in an acute case of mastitis caused by this organism. This treatment was maintained for three days. In addition, the gland was infused daily with 50,000 units. No benefit was derived from the treatment. The organism apparently rapidly spreads into the parenchyma and receives protection from the inflammatory reaction which follows.

NOTE.—I am indebted to Dr. Magwood, Georgetown, for carrying out the treatment.

Penicillin in the Treatment of Infectious Granular Vaginitis in the Cow

Penicillin was used in solution and applied to the vaginal mucous membrane and also injected intra-muscularly, 100,000 units every six hours, for a period of three days. No apparent benefit was derived from the treatment. It is doubtful whether a streptococcus is the causative agent.

NOTE.—The penicillin was administered by Dr. Magwood, Georgetown, Ontario.

PATHOLOGICAL LABORATORY SERVICE

This involves the routine examination of tissues received from practitioners, and the post-mortem examination of carcasses and portions of both large and small animals. During the year, 697 specimens were received—which required the preparation of approximately 2,000 tissue sections. The large increase in the number of samples of blood examined was due to the investigations into swamp fever and bovine hemoglobinuria. The variety of the specimens submitted, and the diagnosis made, are shown in the following table:—

DISEASE	CATTLE	SHEEP	HORSES	SWINE	DOGS	CATS	RABBITS	GUINEA PIGS	BIRDS	FOX	MINK	CHINCHILLA	MONKEY	TOTAL
NEOPLASMS (BENIGN)														
Adenoma					12	1								13
Adenoma—cystitic					3									3
Adenoma—papillary cystic					1									1
Chondroma				1										1
Cylindroma					1									1
Fibroma	3		2	1	8	1								15
Fibro-chondroma					2									2
Lipoma					5									5
Melanoma	1		4		1				1					7
Neuro-fibroma					1									1
Papilloma	4	1			3	1								9
NEOPLASMS (MALIGNANT)														
Carcinoma	2			1	10	2	1							16
Carcinoma—adeno					6	6			1					13
Carcinoma—epidermoid	1				6	4								11
Grangliocytoma	1													1
Hemangioma—cavernous					1									1
Leukosis									2					2
Mesothelioma	5	1			3	1								10
Polyps—nasal			2											2
Seminoma	1				1									2
SARCOMA														
Lymphocytoma	1				2									3
Sarcoma—fibro	1		1		4									6
Sarcoma—lympho	2				1									3
Sarcoma—round cell					2									2
RESPIRATORY SYSTEM														
Congestion		1												1
Congestion—passive					2									2
Congestion and oedema	1			1										2
Oedema			1		1						2			4
Pneumonia—broncho	5				2					7	1			15
Pneumonia—chronic	1			1				1		4	5			12
Pneumonia—embolic						1				3				4
Pneumonia—grey hepatization	1				1									2
Pneumonia—lobar	1		1		1					2	3			8
Pneumonia—parasitic		1												1
Pneumonia—red hepatization	1													1
NERVOUS SYSTEM														
Encephalitis					2									2
Meningitis					1									1
Neurolymphomatosis									1					1
GENITO-URINARY SYSTEM														
Nephritis—acute	2			1			1		1		5			10
Nephritis—chronic	1			2	6						3			12
Nephritis—pyelo	3			1										4
Nephritis—glomerular	5		1		3					1			1	11
Nephritis—sub-acute glomerular											1			1
Nephrosis						1					1			2
Pulpy kidney		2												2
Urinary calculi											4			4
BLOOD AND BLOOD-FORMING ORGANS														
Anaemia				1		3		2						6
Thrombocytopenia					1									1
Leukemia	1			1										2
Leukemia—spleno medullary	1													1
Spleen—congestion				1	2									3

Disease	Cattle	Sheep	Horses	Swine	Dogs	Cats	Rabbits	Guinea Pigs	Birds	Fox	Mink	Chinchilla	Monkey	Total
HEART AND CIRCULATORY SYSTEM														
Endocarditis—chronic				1										1
Myocarditis—chronic	2						1							3
Myocarditis—acute				1		1								2
Myocardial degeneration, necrosis	4							1			4			9
Myocardial necrosis					1									1
SKIN AND SUBCUTANEOUS TISSUE														
Dermatitis					2									2
Inflammatory—acute					2									2
Inflammatory—chronic	2		1		3	1								7
LIVER														
Abscess	1													1
Abscess—miliary				1										1
Congestion—acute	1				3						3			7
Congestion—passive	2			1	4						1			8
Cholecystitis	3		1											4
Degeneration	1								6					7
Degeneration—fatty	4			1	1									6
Degeneration and atrophy	3													3
Enterohepatitis									3					3
Hepatitis-infection	1			1								2		4
Infiltration—fatty	2										1			3
Necrosis—focal	2	1				2								5
Necrosis and haemorrhage	1											1		2
GASTRO-INTESTINAL TRACT														
Coccidiosis	1	1							7					9
Enteritis	1	1		2		1			1					6
Enteritis—acute	2			1		1			1		1			6
Enteritis—gastro	1													1
Enteritis—necrotic	3			2	2									7
Gastritis											3			3
Gastritis—ulcerative	1													1
SPECIAL DISEASES														
Acetonemia	4													4
Actinomycosis	10													10
Actinobacillosis	9													9
Blackhead									1					1
Bracken poisoning	2													2
Distemper					4					2	1			7
Forage poisoning	2													2
Lead poisoning	5													5
Mastitis	7													7
Parenchymatous goitre	1													1
Peritonitis—chronic									1					1
Pyemia			1											1
Rape poisoning	6													6
Rhinitis				12										12
Septicemia	2		1	2	1		1				6			13
"Sudden death" in calves	4													4
Swamp fever			20											20
Toxemia	7		2		1		6	1		10	14			41
Tuberculosis	5			6				1	1		1			14
Virus abortion			3											3
Miscellaneous	52	1	14	24	16	3		5	18	10	24	4	4	175
TOTALS	199	10	55	67	135	30	10	11	45	39	84	7	5	697

DISEASE	CATTLE	SHEEP	HORSES	SWINE	DOGS	CATS	RABBITS	GUINEA PIGS	BIRDS	FOX	MINK	CHINCHILLA	MONKEY	TOTAL
MICROSCOPICAL BLOOD EXAM.														
Red cell count	38		83	13										134
White cell count	23		83	16										122
Differential count	17		10	6										33
Hemoglobin estimation	68		84	14										166
Blood sedimentation rate			71											71
TOTALS	146		331	59										536

SECTION OF HISTOLOGY AND EMBRYOLOGY

T. LLOYD JONES, V.S., B.V.Sc., M.Sc.

Histology has been taught, in previous years, to both first and second year students at the College. Beginning with the current session, the course is now completed in the first year. Time devoted to this subject during the 1946–47 session was as follows:

CLASS	TERM	HOURS PER WEEK		TOTAL NUMBER OF HOURS GIVEN BY INSTRUCTORS	
		LECTURE	LABORATORY	LECTURE	LABORATORY
First Year	Fall	3	6	84	272*
	Winter	3	4	....	.
Second Year	Fall	1	....	24*	32*
	Winter	....	1		

*Classes divided into two sections.

Dr. M. C. Dinberg gave the lecture course to the first year and has completed instructional work with the second year.

In June, 1946, J. P. W. Gilman left to pursue graduate work, and the writer undertook his duties. Dr. J. D. Schroder was added to the staff, as well as Miss Ruth Saison, technician.

During the summer recess, the histology slide library was increased: and 75 sets, each having 100 tissue sections of regular haematoxylin and eosin slides, were made. In addition, lantern slides and specially stained tissue sections have been prepared as class sets or demonstration specimens. Thus, upwards of 8,000 tissue sections have been made in the Histology Laboratory during the year covered by this report.

DEPARTMENT OF PHYSIOLOGY

H. T. Batt, M.V.Sc., M.S., D.V.Sc., Ph.D.,

Certificat de l'Ecole Veterinaire d'Alfort (France)

The work of this department is concerned with teaching the physiology of domestic animals, and with teaching the clinical chemistry of domestic animals, to undergraduate students in the Ontario Veterinary College. Some investigational work is also done; but this, at present, is subsidiary to the instructional work.

Due to the great post-war influx of students, the teaching and investigational work of this department is at present hampered by lack of equipment, facilities, and specially trained assistants. For example, the laboratory accommodation permits only a portion of the class to attend at one time. Conditions in this respect are improving, however. Much new equipment has now been obtained; and it is confidently expected that, upon completion of the new laboratory for Physiology and Clinical Chemistry which is at present being planned, many of the present deficiencies will be remedied.

The total teaching load of this department in the past year consisted of the delivery of 157 one-hour lectures, the preparation and supervision of demonstration periods, the setting and holding of 11 examinations, and the marking of 1,454 examination papers. This load was distributed as follows:

PHYSIOLOGY

The first year class, totalling 143 students, received 70 one-hour lectures, three demonstrations, 10,020 student-lecture hours. Four examinations were held in the course of instruction.

The second year class of 126 students received 58 one-hour lectures, a total of 7,308 student-lecture hours. Four examinations were held in the course of instruction.

The teaching schedule for physiology thus included the delivery of 128 one-hour lectures, the preparation of and supervision of three demonstration periods, the holding of eight examinations and the marking of 1,076 examination papers.

CLINICAL CHEMISTRY

The second year class, 126 students, received 29 one-hour lectures, a total of 3,654 student-lecture hours. Three examinations were held in the course of instruction.

The teaching schedule in clinical chemistry thus included the delivery of 29 one-hour lectures, the holding of three examinations and the marking of 378 examination papers.

DEPARTMENT OF EXTENSION

MASTITIS LABORATORY

F. W. Schofield, D.V.Sc.

The Mastitis Laboratory, which is under the supervision of the Department of Pathology, has, due to the capable and enthusiastic work of Dr. D. A. Barnum and his associates again made a very important contribution to the control and eradication of mastitis. The most significant undertaking of the year was the Guelph Milk Shed Survey. This necessitated the visiting of practically every farm supplying the City of Guelph with milk. Possibly the most important result of the investigation was the personal contact with the farmers and the instructions and suggestions given with regard to the control of mastitis. Valuable information on the clinical use of penicillin has been acquired during the year, as a result of mastitis investigations carried out both in the field and in the laboratory. This data has already been published in the form of scientific papers contributed to the veterinary journals. Abstracts from these papers are included in this report. The large number of milk samples examined—over 12,000—gives some idea of the volume of work undertaken in the laboratory.

ROUTINE

The routine work consisted of the testing of milk samples for mastitis infection. During the year, 12,932 samples of milk were received for this purpose. The record of the submission of samples showed that 2,718 were submitted by veterinarians, 6,016 by members of the College staff and 4,198 by owners on the advice of the College Extension Service or of their local veterinarians. For the collection of these samples, 6,552 sterile vials were forwarded to veterinarians and to owners. The results of the mastitis tests as to the infecting organism are given in table A.

TABLE A

		Percent.
Total number of samples received	12,932	100.0%
Number of negative samples	8,006	61.8
Number of positive samples	4,889	38.0
Number of sample vials broken in transit	37	.2
Classification of positive samples as to the predominant organism:		
Streptococcus agalactiae	2,664	54.46%
Streptococcus uberis	988	20.28
Positive streptococcus (not typed)	145	2.96
Staphylococcus aureus	1,002	20.47
Corynebacterium pyogenes	43	.85
Bacterium coli	46	.94
Bacillus pyocyaneus	1	.04

The monthly reports showed little variation in the percentage of the various organisms found. Therefore, it would appear that there is little, if any, seasonal variation.

INVESTIGATIONAL WORK

A number of experiments and investigations have been conducted, in connection with the different phases of mastitis control.

Penicillin Assays

A total number of 264 penicillin assays were made during the year (191 on milk, 64 on blood sera, and 9 on urine). One of two methods, the deep-well plate or the tube test was used. The tube method for assaying was patterned after that of P.S. Watts and D.H. McLeod (1). The method differed in that we used Difco purple milk as the media, and the indicator added to the milk was brom-cresol purple. The test organism, streptococcus agalactiae, was sensitive to .009 u. of penicillin which was the smallest amount detectable in the milk.

Penicillin Sensitivity Tests

A total of 240 tests were carried out on various mastitis organisms, to determine their sensitivity to penicillin. Because of the possibility of penicillin resistant strains occurring as a result of inadequate penicillin treatment, tests were made on 128 freshly isolated cultures of streptococcus agalactiae. The sensitivity ranged from .004 to .06 units. All strains isolated from treated cows were penicillin sensitive. The sensitivity is recorded in table B.

TABLE B

Penicillin Units per c.c. of Broth Necessary for Inhibition	Number of Cultures of Streptococcus Agalactiae
0.6	1
0.3	1
0.15	4
0.07	3
0.039	13
0.019	41
0.009	43
0.004	22
	128

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(1) P. S. Watts and D. H. McLeod—*The Estimation of Penicillin in Blood Serum and Milk of Bovines.* Journal Comp. Path. & Therap., July/46, Vol. 56, No. 3.

Autogenous Bacterin in the Treatment of Mastitis

A total of 17,500 c.c. of autogenous bacterins was supplied to veterinarians for the treatment of 51 herds. These were prepared, in most instances, where the herd infection was streptococcus uberis or staphylococcus aureus.

Penicillin Infusions in the Treatment of Mastitis

Infusions were carried on in a number of herds to determine the value of penicillin in the treatment of mastitis. These results were published in the Journal of the A.V.M.A., February 1947—("Limitations in the Use of Penicillin in the Treatment and Eradication of Bovine Mastitis" by Dr. F. W. Schofield, and Dr. D. A. Barnum).

The following are the conclusions arrived at in this paper:—

1. In current veterinary practice, it is evident that penicillin has limitations which at first were not recognized.

2. In acute outbreaks of mastitis with rapid spread, penicillin is of limited value in the eradication of the infection; but it has marked clinical value, and should be used for this purpose only in such outbreaks.

3. The intelligent use of penicillin necessitates a bacteriological diagnosis of the infection present in the udder. Its indiscriminate use will bring a most valuable agent into disrepute. In certain infections, other methods of treatment should be combined with penicillin infusions.

4. The value of penicillin as a therapeutic agent in mastitis due to corynebacterium pyogenes and staphylococcus aureus is dependent upon its immediate or early use. Delay in administration may have serious, or even fatal, consequences.

5. To obtain the maximum benefit from penicillin will, in some instances, necessitate the administration of the drug by the trained stockman under the supervision of the veterinary surgeon.

Penicillin Bougies in Mastitis

Preliminary observations on the use of the penicillin bougies were carried out and the results were published in the Canadian Journal of Comparative Medicine, March 1947—"Preliminary Observations on the Use of the Penicillin Bougie in the Bovine Udder", by Dr. D. A. Barnum.

The conclusions as stated in this article are noted below:

1. The penicillin bougie is an easy and effective method of introducing penicillin into the bovine udder. In no case has a harmful effect been observed following the treatment.

2. Penicillin levels of milk samples following the use of the penicillin bougies compare favourably with other methods of administration.

3. The penicillin diffuses throughout the milk in the lactating gland, following insertion of the bougies.

4. In fourteen quarters showing chronic strep. agalactiae infection, culture made 10 days after the completion of the treatment gave negative results.

GUELPH MILK SHED SURVEY

During the summer of 1946 a mastitis survey was made of the herds which supply milk to the City of Guelph. Samples of milk, which were secured from individual quarters of all cows, were tested for mastitis infection. The testing of these samples was not included in the routine report. A summary of this survey is given in Table C. Tables D and E show the results as to the percentage of the various organisms isolated and the herd infection.

TABLE C

	TOTAL	PERCENT.
Total number of herds in the milk shed	98	
Total number of herds tested	94	
Number of herds infected (positive)	87	
Number of herds negative	7	
Number of milking cows tested	1,236	100.0%
Number of cows with history of mastitis (past or present)	262	21.2
Number of cows infected based on bacteriological examination	478	38.7
Number of quarters examined	4,944	100.00%
Number of quarters with recent history of mastitis	195	3.95
Number of quarters infected (culture)	915	18.55
1. Number of cows showing active infection (culture)	468	
2. Number of cows carrying infection (not active)	447	

TABLE D

Organisms Isolated from the 915 Infected Quarters

Organisms	Carrier	Clinical	Total	Percent.
Streptococcus agalactiae	314	292	606	66.2%
Streptococcus uberis	113	93	206	22.5
Staphylococcus aureus	18	77	95	10.4
Streptococcus dysgalactiae	2	5	7	.8
Corynebacterium pyogenes	......	1	1	.1

TABLE E

Herds Grouped as to Predominant Infection

	Total	Percent.
Number of herds	87	100.0%
Streptococcus agalactiae	65	74.7
Streptococcus uberis	10	11.5
Staphylococcus aureus	3	3.4
Mixed infection	9	10.4

Percentage of Infected Quarters in Above Herd Groups

Predominant Organism	41% and Over	21–40%	11–20%	10% and Less	Total
Streptococcus agalactiae	7.7%	30.8%	36.9%	24.6%	100%
Streptococcus uberis	0.0	40.0	30.0	30.0	100
Staphylococcus aureus	0.0	33.3	0.0	66.7	100
Mixed infection	11.1	22.2	44.5	22.2	100

SEROLOGY (BRUCELLA LABORATORY)

N. A. Fish, D.V.M., D.V.P.H.

PREPARATION AND DISTRIBUTION OF BRUCELLA ANTIGEN

Four thousand test doses of Brucella abortus tube antigen were distributed to qualified veterinarians for the agglutination test for Brucellosis.

AGGLUTINATION TESTS

During the past year, 82,265 blood samples were received at the Brucella laboratory and submitted to the agglutination test for Brucellosis. This is a decrease of 16,887 blood samples compared with the number for the previous year. The decrease occurred when it was decided that the post-vaccinal blood testing of calves was unnecessary. This testing was consequently discontinued by many practising veterinarians.

The test groups are composed of samples from cattle intended for export or exhibition purposes, from vaccinated calves, and from cattle in herds in prescribed areas, as well as from the routine testing of individual herds. Samples were received also from the herds at the Ontario Hospital farms, from subsidiary areas including Manitoulin Island, and from herds under experimental adult vaccination. The results of these tests are shown in the table below:

BLOOD SAMPLES RECEIVED FOR THE FISCAL YEAR ENDING MARCH 31, 1947

Test Groups	Blood Samples Received	Positive Samples		Doubtful Samples		Negative Samples		Samples Broken or Hemolysed	
		No.	%	No.	%	No.	%	No.	%
Routine tests	48,257	8,514	17.64	3,324	6.89	36,140	74.89	279	.58
Calfhood vaccination	2,136	1,911	89.47	71	3.32	134	6.27	20	.94
Area plan	5,197	214	4.12	158	3.04	4,790	92.17	35	.67
Exports	21,754	906	4.16	1,176	5.41	19,648	90.32	24	.11
Experimental adult vaccination	714	494	69.19	77	10.78	141	19.75	2	.28
Ontario Hospital Farms	473	141	29.81	58	12.26	273	57.72	1	.21
Subsidiary areas	3,734	221	5.92	79	2.11	3,424	91.70	10	.27
Totals	82,265	12,401	15.07	4,943	6.01	64,550	78.47	371	.45

ROUTINE TESTING OF INDIVIDUAL HERDS

This service is available for the blood testing of individual herds by practising veterinarians. The blood samples are submitted by the veterinarians to the Brucella laboratory, where the agglutination test is performed and interpreted.

EXPORT SAMPLES

In accordance with Federal regulations, provision is made whereby blood samples can be drawn by accredited veterinarians from animals intended for export or exhibition and then forwarded to this laboratory for an official agglutination test. As shown in the table, 21,754 such samples have been received and interpreted. This is an increase of 13,231 samples compared with last year's number.

PRESCRIBED AREA TESTING

Supervised blood testing of herds in prescribed areas is being maintained. During the past year 5,197 samples from cattle, composing 236 herds, have been submitted to the agglutination test for Brucellosis. Twenty-eight herds were turned over to the Health of Animals Division as Brucellosis-free herds.

SUPERVISED CALFHOOD VACCINATION

Important progress has been made on supervised calfhood vaccination during the past year. This progress is partially owing to our untiring efforts to encourage and promote calfhood vaccination throughout the Province. At the present time we have 252 qualified veterinarians participating in our supervised calfhood vaccination plan.

During the year, a total of 98,659 doses of Brucella abortus vaccine (Strain #19) has been distributed to veterinarians for the vaccination of calves in this Province. This represents an increase of 58,861 over the number of doses of Brucella vaccine (Strain #19) distributed during the previous fiscal year. Vaccination certificates and ear tags were supplied to the veterinarians, free of charge, along with the vaccine. These were issued to the herd owners for their vaccinated animals. Thus, each herd owner will have a record for his vaccinated animals in the form of a vaccination certificate and an Ontario Veterinary College ear tag number. A permanent record of vaccination is also maintained at the College for the benefit of the herd owner. If the original certificate should be lost by the owner, a duplicate copy can be obtained by contacting the College.

A questionnaire survey on calfhood vaccination was conducted from the College during the past year. Questionnaire forms were forwarded to herd owners who had been practising calfhood vaccination in their herds for a period of five years or longer. Our findings from these returned completed questionnaire forms were as follows:

1. In Brucellosis-free herds, the percentage of known abortions among calfhood vaccinated cows was found to be 0.25%.
2. In Brucellosis-infected herds the percentage of known abortions among calfhood vaccinated cows was found to be 2.8%, as compared with 30% in a control group.
3. Breeding efficiency of calfhood vaccinated cattle was good.
4. The cattle breeders were preponderantly in favour of calfhood vaccination, and the majority were enthusiastic in their report.

POULTRY DISEASES LABORATORY SERVICE

J. S. Glover, V.S., D.V.M.

This consists chiefly in the routine examinations of poultry sent or brought to the laboratory. The number of specimens received during the past year, and the conditions found, are shown in the following list.

Nature of Case	No. of Cases
Pullorum (chicks, adult fowl and poults)	345
Omphalitis (chicks and poults)	532
Pullorum and omphalitis	121
Pullorum and congenital gout	6
Pullorum and coccidiosis	35
Pullorum and coryza	3
Pullorum and ascariasis	3
Pullorum and capillariasis	2
Pullorum and Vitamin A deficiency	3
Pullorum and pantothenic acid deficiency	6
Pullorum, eversion of cloaca and ascariasis	1
Pullorum and visceral lymphomatosis	3
Salmonella anatum infection	7
Omphalitis and congenital gout	12
Omphalitis and impacted gizzard	2
Omphalitis and riboflavin deficiency	6
Omphalitis and Vitamin A deficiency	16
Omphalitis and coccidiosis	10
Congenital gout	8
Visceral lymphomatosis	225
Visceral lymphomatosis and coccidiosis	9
Visceral lymphomatosis and taeniasis	4
Visceral lymphomatosis and ascariasis	6
Visceral lymphomatosis and capillariasis	1
Visceral lymphomatosis, Taeniasis and Capillariasis	1
Visceral lymphomatosis, laryngotracheitis and capillariasis	1
Visceral lymphomatosis and pediculosis	1
Visceral lymphomatosis, coccidiosis and pediculosis	1
Visceral lymphomatosis, coccidiosis and ascariasis	1
Visceral lymphomatosis, ascariasis and capillariasis	1
Visceral lymphomatosis and Vitamin A deficiency	1
Ocular lymphomatosis	2
Osteolymphomatosis	6
Erythroblastosis	6

Nature of Case	No. of Cases
Coccidiosis	999
Coccidiosis and coryza	5
Coccidiosis and enterohepatitis	42
Coccidiosis and ascariasis	26
Coccidiosis and capillariasis	43
Coccidiosis and taeniasis	8
Coccidiosis and pantothenic acid deficiency	1
Coccidiosis, enterohepatitis and ascariasis	1
Coccidiosis, ascariasis and capillariasis	4
Coccidiosis, ascariasis and taeniasis	8
Coccidiosis, ascariasis and ruptured oviduct	1
Coccidiosis, ascariasis and coryza	2
Coccidiosis and tumours	1
Coccidiosis, eversion of cloaca and capillariasis	1
Coccidiosis and osteopetrotic lymphomatosis	1
Coccidiosis, visceral lymphomatosis and pediculosis	1
Coccidiosis and ruptured kidney	1
Staphylococcosis	80
Staphylococcosis and Vitamin A deficiency	1
Staphylococcosis and capillariasis	1
Staphylococcosis and ascariasis	1
Staphylococcosis, capillariasis and taeniasis	1
Streptococcosis	1
Tuberculosis	28
Tuberculosis and pediculosis	1
Tuberculosis, ascariasis and taeniasis	1
Tuberculosis, ascariasis, taeniasis and roup	1
Colibacillosis	26
Enterohepatitis	102
Enterohepatitis and ascariasis	1
Enterohepatitis and capillariasis	5
Cholera (turkeys 18, chickens 3)	21
Typhoid (chickens)	12
Erysipelothrix septicaemia (turkeys 12, chickens 2)	14
Larynogotracheitis	39
Laryngotracheitis and ascariasis	4
Laryngotracheitis and capillariasis	2
Laryngotracheitis and taeniasis	1
Fowl pox	2
Fowl pox and ascariasis	4
Pigeon pox	3
Bronchitis	25
Pulmonary congestion	18
Pneumonia	2
Pericarditis	6
Botulism	3
Pseudomonas aeruginosa infection	2
Pseudomonas aeruginosa infection and coryza	4
Pseudomonas aeruginosa infection and ascariasis	1
Coryza	42
Coryza and taeniasis	1
Coryza and ascariasis	2
Coryza, ascariasis and capillariasis	2
Coryza and Vitamin A deficiency	1
Coryza, ascariasis and Vitamin A deficiency	2

Nature of Case	No. of Cases
Roup	26
Roup and ascariasis	8
Roup, ascariasis and capillariasis	1
Roup, ascariasis and taeniasis	1
Roup, Vitamin A deficiency and impacted oviduct	1
Peritonitis	3
Enteritis	96
Nephritis	1
Anaemia	6
Emaciation	5
Sapremia	2
Ascites	2
Infectious sinusitis	4
Icterus	1
Tumours	38
Tumours and ascariasis	1
Tumours, ascariasis and capillariasis	1
Tumours and pediculosis	1
Tumours and ruptured intestine	1
Favus	5
Favus and taeniasis	2
Favus and Vitamin A deficiency	1
Ascariasis	124
Taeniasis	46
Capillariasis	60
Ornithostrongylosis	3
Trichostrongylosis	1
Ascariasis and taeniasis	35
Ascariasis and capillariasis	17
Ascariasis, taeniasis and capillariasis	6
Ascariasis and ornithostrongylosis	1
Ascariasis, taeniasis and impacted crop	1
Ascariasis and ruptured oviduct	4
Ascariasis and impacted oviduct	2
Ascariasis and impacted and ruptured oviduct	1
Ascariasis and eversion of cloaca	1
Ascariasis, eversion of cloaca and ruptured oviduct	1
Ascariasis and ruptured liver	2
Taeniasis and capillariasis	9
Taeniasis and eversion of cloaca	2
Taeniasis and Vitamin A deficiency	1
Taeniasis and impacted oviduct	1
Capillariasis and Vitamin A deficiency	1
Capillariasis and eversion of cloaca	1
Peduculosis	4
Vitamin D deficiency	646
Vitamin A deficiency and impacted oviduct	1
Vitamin A deficiency and ruptured oviduct	1
Vitamin D deficiency	41
Riboflavin deficiency	57
Pantothenic acid deficiency	18
Biotin deficiency	35
Perosis	10
Depraved appetite (due to lack of fibre)	3
Anorexia (induced by too much fish oil in the mash)	3
Nutritional disorders other than above	54
Intestinal impaction	9
Gizzard impaction	4
Crop impaction	5
Oviduct impaction	19
Ruptured intestine	1

NATURE OF CASE	NO. OF CASES
Ruptured kidney	12
Ruptured liver	35
Ruptured oviduct	18
Impacted and ruptured oviduct	13
Torsion of intestine	1
Intussusception of intestine	1
Eversion of cloaca	18
Injury	53
Gizzard erosion	16
Oedema of wattles	1
Sodium chloride poisoning	7
New wheat poisoning	3
Chilling or overheating	71
No evidence of disease or too putrid for examination	547
TOTAL	5,229

NUMBER OF CONSIGNMENTS AND SPECIMENS RECEIVED EACH MONTH

	CONSIGNMENTS			SPECIMENS		
	CHICKENS	TURKEYS	OTHER BIRDS	CHICKENS	TURKEYS	OTHER BIRDS
1946						
April	203	22	2	760	190	2
May	251	40	2	563	146	7
June	212	42	4	541	137	4
July	153	42	4	283	100	6
August	135	25	2	322	49	8
September	132	17	1	175	27	1
October	133	13	3	284	16	3
November	160	19	2	273	28	3
December	96	4	1	168	18	1
1947						
January	110	3	1	300	4	1
February	95	2		359	4	
March	117	11		400	46	
TOTALS	1,797	240	22	4,428	765	36

TABLE SHOWING THE NUMBER OF CONSIGNMENTS RECEIVED FROM EACH COUNTY OR DISTRICT AND PLACES OUTSIDE OF ONTARIO

COUNTY OR DISTRICT	CHICKENS	TURKEYS	OTHER BIRDS	TOTAL
Algoma District	6	1	....	7
Brant	30		...	30
Bruce	107	2	1	110
Cochrane District	8			8
Dufferin	60	1	1	62
Dundas	1			1
Durham	10	1		11
Elgin	25	11		36
Essex	15	12		27
Frontenac	3	..		3
Glengarry	8	...		8
Grey	67	4	2	73
Haldimand	16	1		17
Haliburton	2			2
Halton	78	25	2	105
Hastings	34	1	...	35
Huron	81	8		89
Kenora District	2			2
Kent	36	5		41
Lambton	55	15	1	71
Lanark	1	....	....	1

COUNTY OR DISTRICT	CHICKENS	TURKEYS	OTHER BIRDS	TOTAL
Leeds	2	....	....	2
Lennox and Addington	3	....	....	3
Lincoln	12	1	....	13
Manitoulin District	....	1	....	1
Muskoka District	2	....	...	2
Middlesex	51	18	2	71
Nipissing District	2	....	....	2
Norfolk	14	4	....	18
Northumberland	33	1	...	34
Ontario	29	2	....	31
Oxford	36	9	....	45
Parry Sound District	1	....	....	1
Peel	68	13	3	84
Perth	67	3	....	70
Peterborough	17	4	....	21
Prescott	3		....	3
Prince Edward	12		....	12
Renfrew	2		....	2
Simcoe	74	13	...	87
Stormont	2	...	...	2
Sudbury District	6		1	7
Thunder Bay District	4	....	....	4
Timiskaming District	6	1	....	7
Victoria	11	1	....	12
Waterloo	116	14	1	131
Welland	7	2		9
Wellington	348	22	2	372
Wentworth	59	10	....	69
York	147	29	6	182
Prince Edward Island		1	...	1
Nova Scotia	1		...	1
Quebec	7		....	7
Manitoba	1		....	1
No address	9	4	....	13
TOTALS	1,797	240	22	2,059

PREPARATION AND DISTRIBUTION OF FOWL POX VACCINE

267,800 doses of vaccine were prepared and distributed for the vaccination of poultry by the Johnson stick method for the prevention of fowl pox.

DISTRIBUTION OF PIGEON POX VACCINE

2,900 doses were distributed for use in flocks where cases of fowl pox had occurred in a pen. This vaccine was not prepared here.

DISTRIBUTION OF INFECTIOUS LARYNGOTRACHEITIS VACCINE

101,500 doses were distributed for the vaccination of poultry for the prevention of laryngotracheitis. This vaccine was not prepared here.

A BRIEF REVIEW OF SOME OF THE CAUSES OF MORBIDITY AND MORTALITY IN ONTARIO POULTRY FLOCKS DURING THE PAST FISCAL YEAR

This report is based on post-mortem and bacteriological examinations made in the poultry diseases diagnostic laboratory, and investigations conducted on certain poultry farms.

Pullorum Disease

During the year S. pullorum was isolated from 528 chicks, poults and adult fowl—approximately 10 per cent of the total specimens examined. The previous year 812, or approximately 22 per cent of the birds examined were affected with this disease. Five years ago 37 per cent of the specimens received were found to be affected with pullorum. This steady reduction is chiefly due to a greater number of flocks being tested for pullorum, improved methods of testing, and a realization by more hatcherymen that efficient cleaning and fumigation of incubator and hatching equipment is of prime importance in the control of disease. S. pullorum was isolated from one gosling sent in from Grey county.

Salmonella Anatum Infection

Apparently this disease is not common in Ontario. We had not diagnosed it here for several years, until in August the organism was isolated from one consignment of ducklings from Peel county.

Staphylococcosis

This condition is frequently encountered in chickens and turkeys, and occurs in one of three forms. The most predominant form is infection of the internal organs, principally the liver and intestines. Staphyloccocic arthritis. caused by the organism localizing in the joints, is occasionally seen. More rarely, there is an uncomplicated skin infection which causes little disturbance to the affected birds. The coagulase test is employed to determine the pathogenicity of staphylocccoci isolated. As a rule the cases encountered by us do not represent a flock infection. If it appears likely that several birds in a flock are affected, the use of penicillin injections or the medicating of the drinking water with sodium sulfathiazole sesquihydrate is indicated.

Botulism

A few dead chickens were received from Peterborough county in November. No evidence of any disease was found on a post-mortem examination. The veterinarian who forwarded the birds reported that there had been several deaths in the flock within a day or two, the only symptom observed being "limberneck." Investigations left little room for doubt that botulism was the cause of sickness and death.

Fowl Cholera

Although cholera was frequently seen in Ontario poultry flocks up until about 12 or 15 years ago, no evidence of its occurrence was brought to our notice for several years until August, 1946. At that time a severe epidemic was investigated in a turkey flock in Waterloo county. (Incidentally, I had not before seen the disease in turkeys). The turkeys were on range, and by the time the condition was brought to our notice many deaths had taken place, and several turkeys were found to be dead or dying. In order to try to control the outbreak, the owner was advised to collect and burn the dead birds several times a day instead of a few times a week as he had been doing. The next outbreak occurred in a flock of breeding turkeys in Lambton county, in January of this year. As soon as the disease was definitely diagnosed, the local veterinarian was advised, the treatment of the flock suggested. Unfortunately the owner decided not to go to the expense of veterinary services. In March of this year, cholera was diagnosed in one pen of cull hens in Kent county. In this case, our advice was taken. The survivors in this pen were killed, and the carcasses of those that did not appear healthy were burnt. The local veterinarian was notified, and he treated the remainder of the flock (about 350 birds) with anti-hemorrhagic septicaemia serum in 2.5 to 3 cc. doses. No further cases of cholera developed on these premises.

Fowl Typhoid

To our knowledge typhoid had not made its appearance in Ontario until June 1946, when the disease was diagnosed in a flock of chickens on a farm in Middlesex county. A full report of this outbreak was published in the Canadian Journal of Comparative Medicine. The disease has since been diagnosed in two other chicken flocks, both in Kent county, one in September and one in October. Fairly heavy losses occurred in all three flocks. It should be noted that the conditions under which these flocks were kept left much to be desired in the way of sanitation.

Erysipelothrix Septicaemia

Erysipelas has been diagnosed four times during the past year—in Peel county in a pen of turkeys, in December; in chickens on a farm in Oxford county the same month; in Simcoe county in a flock of turkeys in March; and in a chicken flock in Elgin county about the same time. The Peel county outbreak resulted in a heavy loss of male birds a few weeks before they were to be marketed. Eleven dead birds and one living were brought in to the laboratory for diagnosis. The remainder of the flock was marketed before the disease had spread to other pens. In the other three cases, only a very few birds were lost. The disease is easily diagnosed on cultural and microscopical examinations of the blood or internal organs. It is a very acute disease, deaths taking place as a rule within 24 hours after symptoms of droopiness and anorexia are noticed. As in the case of swine erysipelas, this disease is transmissible to man. Male birds are more frequently affected than are females.

Infectious Sinusitis

This non-specific bacterial infection of turkeys was seen in a few flocks. In one of these, six-or seven-week-old poults were affected. It was learned that some of the breeders in this flock had the disease during the winter. The best treatment for this condition is to aspirate the semi-gelatinous material from the bulging sub-orbital sinuses, and then inject 1 cc. of a 4 per cent solution of silver nitrate, massaging the solution into the tissues. Although there is usually a swelling a few days later, this soon subsides; and the condition clears up in about 10 days time. Occasionally a second treatment is necessary. It is generally agreed that an inadequate amount of vitamin A in the diet is a predisposing cause. The use of recovered birds for breeding purposes is inadvisable.

Non-specific Enteritis

This is found chiefly in turkeys, and usually in birds on range. It is quite common in Ontario. When diagnosed in some birds in a flock, it is advisable to give the remainder either a dose of raw linseed oil, or a three- or four-day treatment of sulphocarbolates in the drinking water.

Pigeon Pox

In July, a few pigeons in a loft in Middlesex county were found to be severely affected with this disease. They had recently returned from a long flight. As they were valuable birds, they were isolated and treated every other day. Treatment consisted of swabbing the affected parts with a 15 per cent argyrol solution. This treatment was successful.

Favus

This was the only mycotic disease encountered in chickens during the past year. It was observed in two flocks in Halton county in September; and in three other flocks in October, two in Wellington county and one in Wentworth county. In the treatment of this disease various ointments have given satisfactory results. We have found that the application of vaseline 20 parts and formaldehyde 1 part to the affected areas a few times, at intervals of two days, will clear up the condition. Affected birds should be isolated. Favus is transmissible to turkeys and man.

Coccidiosis

As indicated in the table shown on a previous page, coccidiosis is by far the greatest single cause of deaths in growing chicks and poults in Ontario. However, with proper use of a suitable sulfa drug at the onset of the disease in a flock, the death rate can be kept at a very low level. In many instances people wait too long before finding out the reason for mortality in the flock, with the result that control measures are put into force many days too late. In July, for the first time on record in our laboratory, renal coccidiosis was found in a twelve-weeks-old gosling sent in from Halton county. Seventeen out of the 28 goslings on this farm had died before this one was brought to us, apparently after exhibiting the same symptoms. Lesions were confined to the kidneys, and oocysts were found only in those organs. The other eleven goslings were treated with a sulfa preparation in the drinking water, and all survived.

Leucosis Complex

Visceral lymphomatosis was by far the commonest form of leucosis found. The liver, spleen, kidneys and ovary were the principal organs involved. Ocular lymphomatosis, osteopetrotic lymphomatosis and erythroblastosis were found in a few birds.

Trichostrongylosis

Examination of a four-months-old goose, received in October from Peel county, revealed the presence of numerous hair-like worms in the coca. These worms were about five to seven millimetres in length. They were identified as trichostrongylus tenuis, and we have no record of their being found here before.

Ornithosrongylosis

Ornithostrongylus quadriradiatus is a hair-like worm we frequently find in the intestines of pigeons. Infestation results in a severe enteritis and death.

Chilling or Overheating

Owing to electric power troubles this spring, it was often impossible to maintain proper temperatures in brooders, and many chicks died as a result. Delays in transportation during the time highways and railways lines were blocked with snow resulted in many chicks becoming chilled and weakened.

Nutritional Conditions

Vitamin A, vitamin D, riboflavin, biotin and pantothenic acid deficiencies were the chief nutritional troubles encountered in chicks and poults. All of these can, as a rule, quickly be corrected in a flock.

Miscellaneous

A mash containing too much sodium chloride was considered responsible for many chick deaths in one flock. In another flock the owner, in order to give his chicks more vitamin A, added far too much cod liver oil to the mash instead of letting the chicks have free access to the oil. Anorexia and death ensued. Injuries were found to be the cause of many deaths in poultry. These included ruptured livers and kidneys, and bites of foxes and other wild animals. If several deaths occur in a flock that was apparently healthy the previous day, and the rest of the flock show no sign of sickness, it is always advisable to look for teeth marks on the breast musculature. During the spring and early summer months many chicks are received that appear to be in perfect health. A lot of these are forwarded to us for a check after certain conditions, about which the owner has been notified, have been corrected in a hatchery. As in the cases of dead or obviously sick birds, thorough post-mortem and bacteriological examinations are made, and the owner informed of our results as soon as possible.

During the year several visits were made to premises on which poultry were kept. These visits serve a twofold purpose. The owner of the flock feels that he is getting a better service when a personal check-up on his management and flock conditions is being made; and the diagnostician has a better chance of finding out the cause of trouble than he has when confined to the examination of one or two dead birds in a laboratory.

Addresses were given at a few meetings, including the annual meeting in August of the Ontario Turkey Association held at Poplar Hill.

A course of lectures and demonstrations in Poultry Diseases was given to the Third year during the fall and spring terms, as well as lectures and demonstrations in January to students taking the poultry husbandry short course at the Ontario Agricultural College.

OBSERVATIONS ON CASES OF INFERTILITY IN BULLS

C.A.V. Barker, B.V.Sc., C.S.I., M.Sc.

During the past year, 48 semen samples from 23 bulls of questionable fertility have been examined macroscopically and microscopically, in an effort to determine the cause of the low conception rate. A few of these bulls were presented at the College clinic for examinations; a small number were examined on the owners' premises; and in other instances, semen samples were submitted by veterinarians for evaluation.

Working under field conditions in Ontario, it is often necessary to rely on the simplest yet most accurate tests for the estimation of the bull's fertility. Very often the owner expects a prognosis to be given on the basis of a single examination. Unless there is a very obvious clinical abnormality, or a grossly abnormal semen sample, it is very difficult to give an accurate prognosis on the basis of one examination. If it is at all possible, repeated examinations at frequent intervals should be made. Several laboratory tests and a clinical examination are useful in estimating the fertility of a bull, but in actual practice the number of cows impregnated is the final test.

The artificial vagina is one piece of equipment essential for the collecting of a sample of semen suitable for an estimation of the bull's fertility. In some instances bulls fail to ejaculate into the artificial vagina. Here it is possible to obtain semen by allowing a cow not in heat to be served. A cow not in heat should be used, in order that the sample will contain the least amount of vaginal or cervical mucus. Mucus in a sample prevents an accurate estimation of motility.

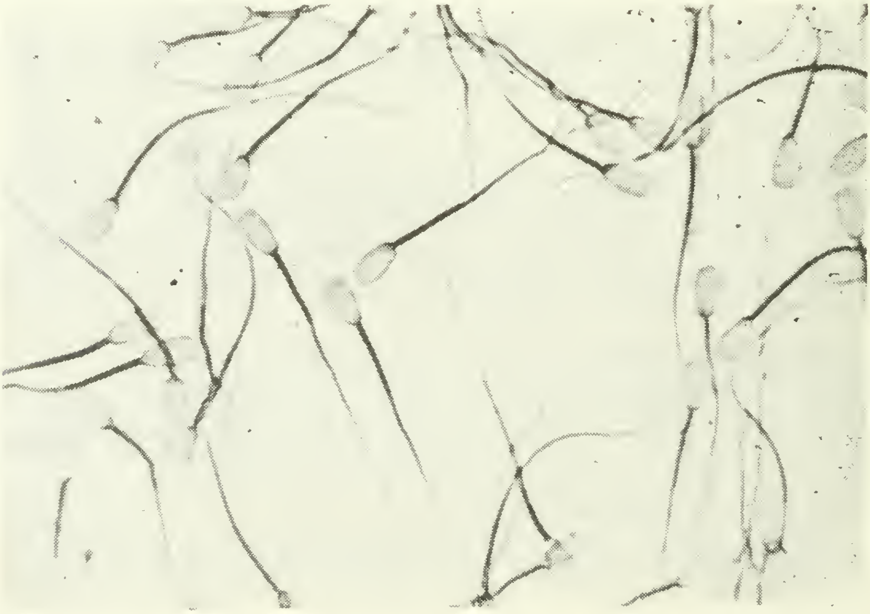

FIG. 1.—Spermatozoa from a bull with a good breeding record.

Briefly, a procedure which has been followed consists of collection by means of an artificial vagina, an examination for motility estimation, and the preparation of stained smears to estimate the number and type of abnormal spermatozoa present. Three per cent aqueous Rose Bengal is used as a simple spermatozoa stain. The herd breeding records are always closely examined, and a clinical examination of the bull is made. If it is felt necessary, further special tests (e.g. duration of motility, and methylene blue reduction tests) are resorted to. In making a motility estimation, use is made of a hanging drop slide, and the rating given is based on a classification similar to that suggested by Herman and Swanson (1). The libido of the bull is noted at the time of service. The physical characteristics of the semen obtained are of considerable importance, especially the colour and volume. When all of these observations are assembled, i.e. the libido, volume of semen, colour, consistency, motility estimation, and numbers and types of abnormals, plus the clinical examination and breeding records or a case history if available, a satisfactory basis has been established for a rating on the bull's fertility.

Observations on 10 cases are as follows:

Cases Nos. 1 and 2

Both of these bulls were Holsteins, used along with a third bull in a herd of more than 100 cows. Case #1 was five years of age, and #2 was 15 months of age. The owner reported that many of his cows were not conceiving, in spite of the use of these three bulls. An examination of the genital health of the herd revealed many cows with uterine discharges, and a history of a few abortions. Semen was collected from only two of the bulls, the third bull being too difficult to handle even by the owner.

Case #1 had served 143 cows over a period of nine months, sometimes being used 10 times a week. This was due to the fact that Case #2 apparently was not settling the cows. Results of the semen examination showed: colour,

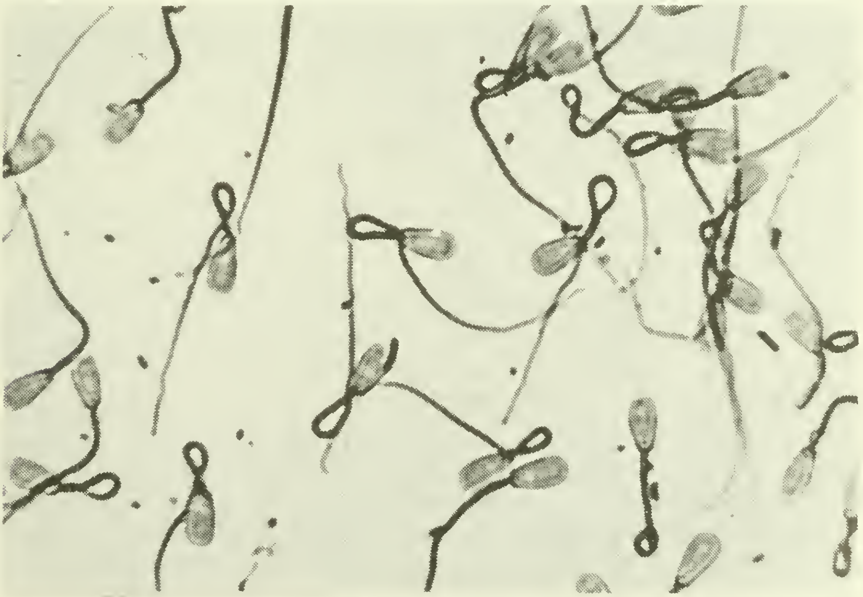

FIG. 2.—Spermatozoa of Case No. 1.

normal; motility, grossly abnormal in that the spermatozoa showed a shivering motion, moving in circles and not progressing. Stained smears (Fig. 2) showed approximately 95 per cent of the spermatozoa were abnormal, having coiled tails and deformed bodies. Storage tests showed 12 days' survival. No clinical abnormalities palpated.

From Case #2 only one ejaculation was collected, since the bull refused to give further services. This ejaculation was of a bluish white colour, very thin and watery. Examination showed that there were no spermatozoa, only many epithelial cells present. The clinical examination revealed adhesions of the testicles and scrotum (Fig. 3). The owner informed us that this young bull had had a severe inflammation of the testicles a few months ago and had almost died. At the time of examination his condition was very good. After the scrotal swelling disappeared, this bull was put into service but no cows conceived. This bull was diagnosed as completely sterile. Subsequently his testicles were obtained at the time of slaughter, and a diagnosis of chronic interstitial orchitis was made (Fig. 4).

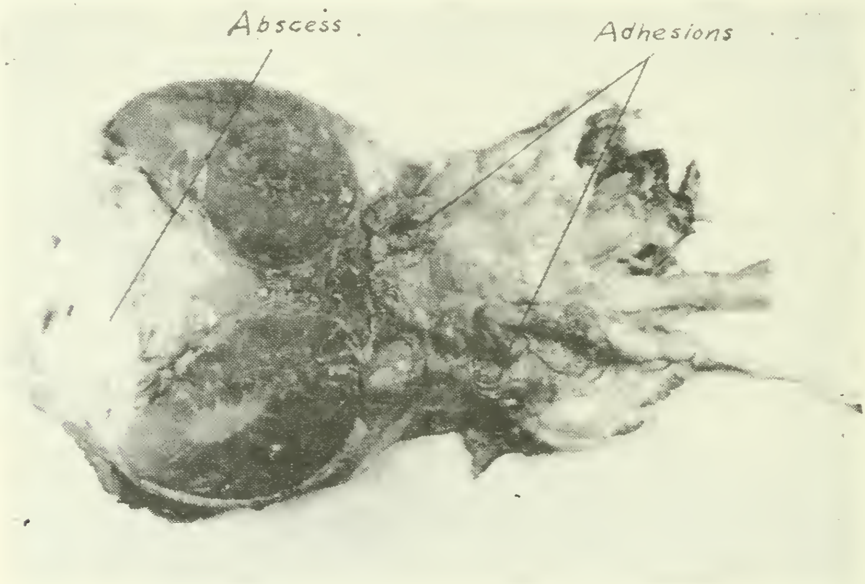

FIG. 3.—Abscessation and adhesions (Case No. 2).

With regard to Case #1, the owner was advised that this bull would have a greatly reduced fertilizing capacity and should be withheld from service and treated. This was done, but the owner did not advise us of the results.

Case No. 3

The history of this bull is very interesting. He was put into service prior to one year of age. During the period from October, 1945, to June, 1946, he served 27 cows and heifers, of which only one was known to have conceived. Three examinations at monthly intervals were made on the bull. The first examination revealed that his libido was excessive. Despite three services into the artificial vagina, no semen could be found. He was allowed to serve a heifer, and approximately 1 cc. of semen mixed in mucus was recovered. The

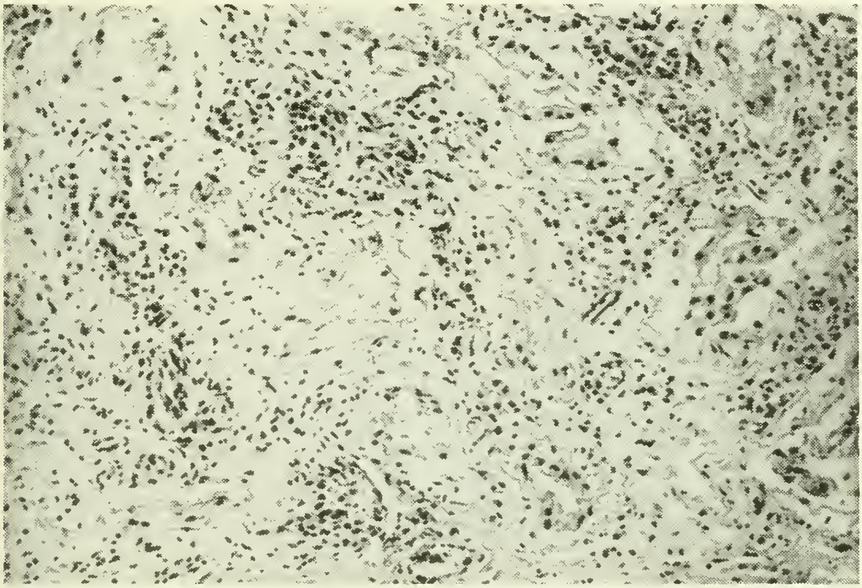

FIG. 4.—Chronic interstitial orchitis (Case No. 2).

motility rating could not be determined. Abnormals noted were crooked tails and bodies and a few double heads. The second examination a month later (after the bull had been rested) was made again on about ½ cc. mixed with mucus. The same type abnormals were noted. During this month the bull was treated by a veterinarian. A month later, the semen picture was unchanged and the owner was advised that further treatment would be useless.

This bull had been purchased on a guarantee and was returned to its original owner. In our first examination of this case a diffuse swelling was noted in connection with the right testicle. There was nothing in the history of this case to account for this swelling. Insofar as we know, this bull has not been slaughtered, and it is hoped the testicles will be made available for examination.

Case No. 4

This case was a young Holstein bull. The only history reported was that 10 cows had been bred. Three were believed to have conceived. All had required three services or more. Seven were not pregnant at the time the sample was submitted. About 3 cc. of a very watery sample containing shreds of material were submitted. On examination, no live spermatozoa were observed. There were few normal spermatozoa. Most of the sample consisted of free heads (Fig. 5). This bull was suspected of being the true cause of the infertility in the cows.

Case No. 5

This young Jersey bull was being used as one of the junior herd sires in a herd of about 300 cows and heifers. The history indicated that few, if any, of the cows had conceived to his services. Collections were made by artificial vagina on five occasions, at regular intervals. On the first collection, two ejaculations were required to get 2 cc. of a dirty, grey, watery semen. No motility estimations were possible, since the samples were sent by mail for examination. Stained smears (Fig. 6) showed approximately 75 per cent abnormals, mostly deformed tails and bodies with a few free heads and pyriform heads. After the first examination this bull was given a tonic of cobalt, iron, and manganese, resulting in no appreciable change in the semen evaluation. Subsequently, the bull was given a series of four injections of pregnant mares' serum, at weekly intervals. On the day of each injection a sample was submitted for evaluation. By the end of the third treatment, the semen volume had increased 100 per cent, but there was no change in the numbers of abnormals. At the time of the last injection, the semen volume on two ejaculations was four cc., and the colour was normal. A week after the treatment was completed, another sample was examined and in all respects the evaluation returned to that prior to treatment. The colour was dirty grey, concentration poor, and volume reduced.

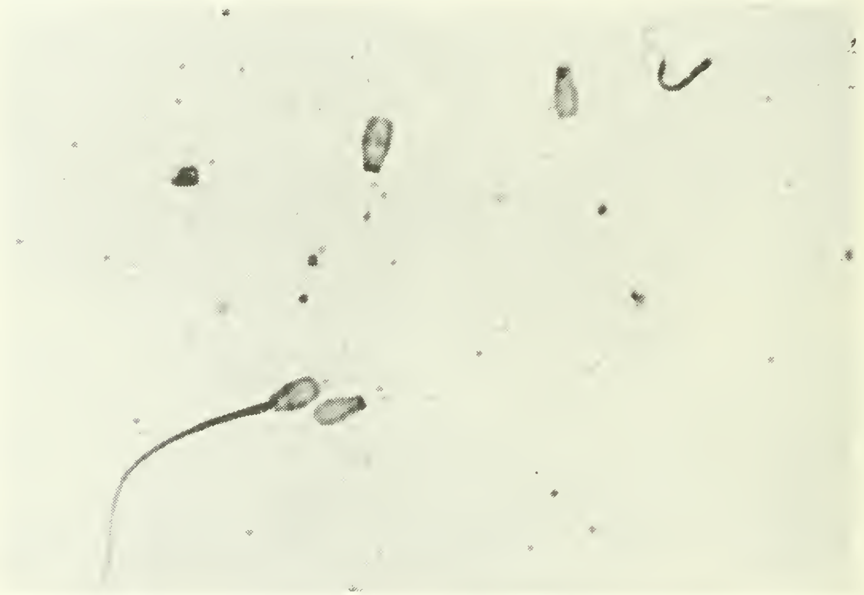

FIG. 5.—Spermatozoa of Case No. 4.

It is believed that this bull is totally sterile. The owner, however, intends to breed a number of cows in order to evaluate the treatment.

Case No. 6

This case is that of four-year-old Jersey bull used as a herd sire until an accident occurred while the owner was collecting semen with an artificial vagina. Subsequently the bull mounted cows readily, but protruded the penis only six inches and then dismounted. On examination, it was found impossible to withdraw the penis even with a caudal anaesthetic. An effort was made to get the bull to ejaculate into a very short artificial vagina without success. No spermatozoa were recovered by massaging the ampullae. Treatments with iodinated casein, pregnant mares' serum, and 2–4 dinitrophenol were unsuccessful. At the time of slaughter no lesion was found involving any portion of the genital tract.

Case No. 7

This purebred, aged, Guernsey bull was one of three sires used in a herd of about 45 cows and heifers. He had a particularly good pedigree and was used as the main sire. Over a period of about a year, the owner had reported difficulty in getting cows to conceive. Semen samples were collected from the three bulls, and the infertility in this bull became evident. The first ejaculation was a clear water-like fluid of about 4 cc.; the second ejaculation was 6 cc. and of the same nature. No spermatozoa were observed. Examination a month later showed that the same type of fluid was ejaculated, containing a few grossly abnormal spermatozoa (Fig. 7). Clinical examination did not reveal any gross abnormality. The testicles were recovered at the time of slaughter. When they were incised, they were seen to be of a deep, orange colour. The report on sections submitted for histo-pathological examination indicated that an interstitial cell adenoma was the cause of the sterility (Fig. 8).

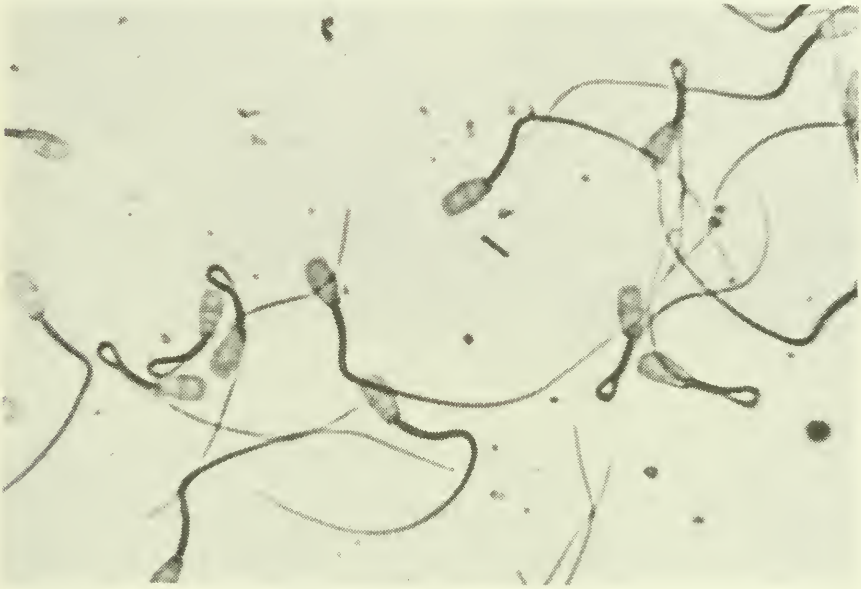

FIG. 6.—Spermatozoa of Case No. 5.

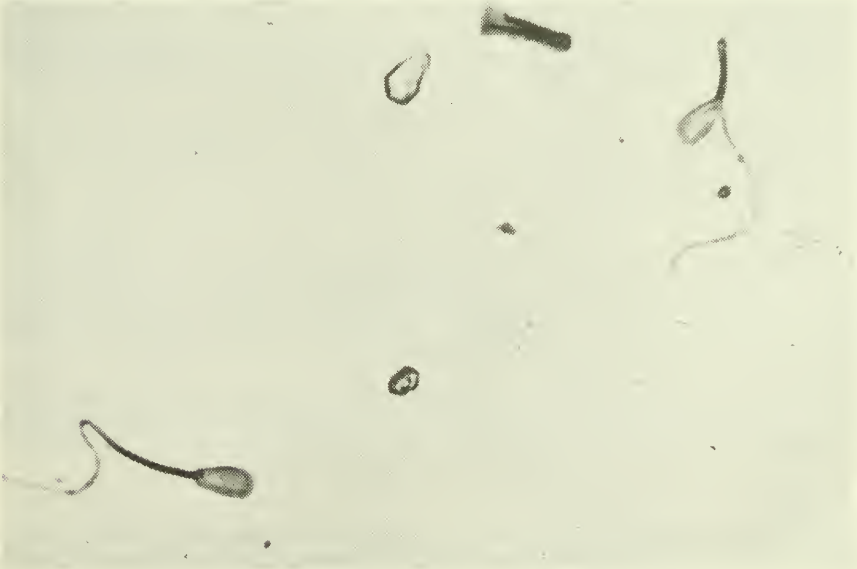

FIG. 7.—Spermatozoa of Case No. 7.

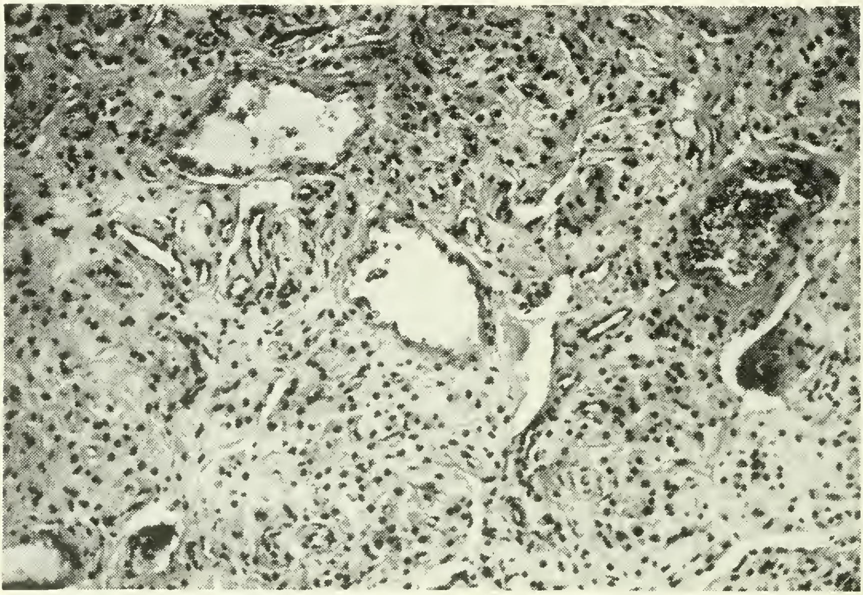

FIG. 8.—Adenoma of the testicles (Case No. 7).

Case No. 8

This six-year old, purebred, Holstein bull was brought to the College with a history of good fertility until 1942. At that time he was loaned to another breeder. On his return, he developed a slight orchitis, which the owner treated with liniment. Subsequently the inflammation subsided. During the succeeding three years, his breeding records were poor. At the time of our first examination, he was negative on Bang's test. The owner had been told that this bull was probably carrying a trichomonas foetus infection, and for that reason repeated examinations were made without any demonstration of this protozoan. Repeated semen examinations revealed many interesting features. On the first examination, 7 cc. of normal coloured semen were collected, with a motility rating of 80 per cent and a high sperm count. Methylene blue reduction tests on three samples gave a result of four mins. on each sample. Storage tests revealed survival for 10 days. The stained smears showed that the majority of the heads of the spermatozoa were pyriform, with a few crooked tails (Fig. 9). Clinical examination showed the left testicle was atrophic. Seven further examinations over a two-months' period showed little change in the sperm morphology. The motility rating, however, dropped considerably; and at the time of the last methylene blue reduction test the time of 20 mins. was recorded. Three cows were inseminated artificially with whole semen from this bull on two occasions, and none conceived.

The owner was advised that this bull had a reduced fertility, and should not be depended upon as a suitable sire. No further information has been received concerning the use of this bull after it left the College clinic.

Case No. 9

Case #9 was an 11-months-old, purebred, Holstein bull with an outstanding pedigree. Because he masturbated frequently, the owner decided to put him into service instead of wasting what he thought was good semen.

However, of 29 cows bred artificially by the same technician, only seven were believed to have conceived. This conception rate may have been due to several factors other than the semen, in that cows of all ages and with questionable breeding records were being inseminated. A ½ cc. sample, taken four hours previously, was submitted for examination. Colour was normal, concentration good, motility virtually nil. There was approximately 20 per cent of abnormals noted, chiefly heads without bodies, crooked necks, and deformed tails. Five days later another sample was submitted. The motility was satisfactory. Other than this there was no change in the evaluation. The owner was advised to change the ration, give the bull a rest from breeding, for a month, and provide daily exercise. At the end of this month, another sample was brought for examination. The semen had greatly improved, and approximately five per cent of abnormals was noted. The bull continued to masturbate frequently, however. A month later, another sample was examined. This time the motility was poor, probably owing to temperature conditions during transit. At a later date another examination indicated that the semen of this bull should be satisfactory for insemination purposes.

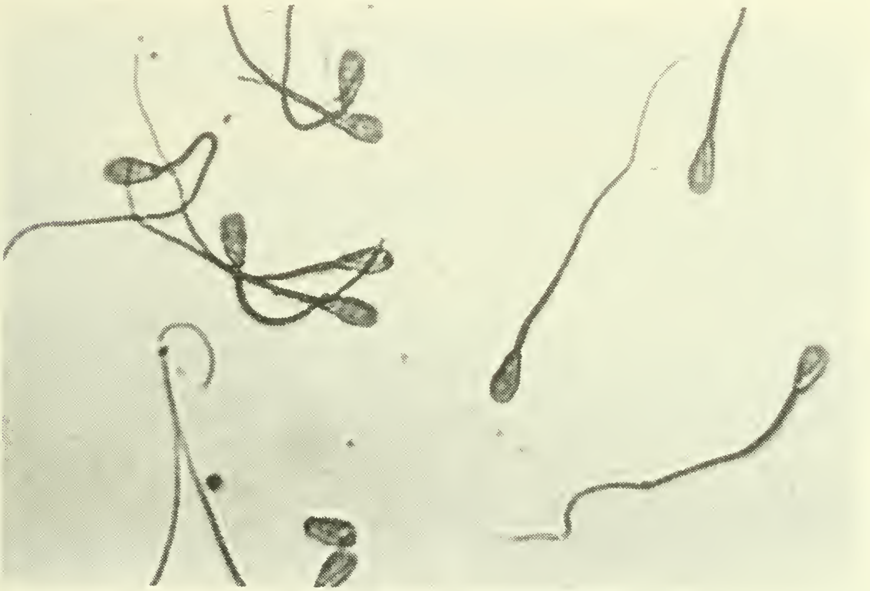

FIG. 9.—Spermatozoa of Case No. 8.

Several factors were probably causing this young bull to have a low conception rate. These were, in all probability, the fact that he masturbated, that the technician was not familiar with certain insemination procedures, that the ration at first was inadequate, and, finally, that cows with poor breeding records were being inseminated. During the last three months, no further samples have been examined, but reports indicate a low conception rate.

Case No. 10

Case #10 illustrates the point that occasionally one finds bulls which, by means of all tests, are apparently perfectly suitable for breeding purposes yet fail to have a desirable conception rate.

The animal in this case was one of six Holstein bulls in an artificial unit. Many cows were returning for services to this bull. The conception rate was 35–40 per cent; colour, normal; volume, 6 cc.; motility, 80 per cent; storage survival, 12 days at 4°C. There was approximately five per cent abnormals, with the abnormality largely in the tails. The sperm count was 980,500,000 per cc.

There were no detectable abnormalities on clinical examination. According to the results of all tests, this bull should have had a much better conception rate. The bull's service was discontinued, and he was subsequently used in a private herd.

DISCUSSION

The etiology of the testicular changes which occurred in some of these cases is unknown. Factors which may have been the cause of the resultant infertility are endocrine dysfunction, hereditary influences, dietary deficiencies, testicular infections, and other obscure factors.

One case (#8) of reduced fertility was accompanied by a history of orchitis and an atrophic testicle. This bull at the time of examination was negative to a Bang's test. The orchitis may have been the result of injury during transit from farm to farm.

Case #6 was sterile as a result of inability to copulate. Bulls similar to this are occasionally encountered in practice. The inability to serve may have been the result of improper use of an artificial vagina. No lesions were found at post mortem which would account for the infertility.

Case #7 was an aged Guernsey bull whose infertility was the result of an interstitial cell adenoma of the testicles.

One case (#2) of chronic orchitis was observed. Both testicles were involved, with extensive adhesions and abscessation in the epididymus of one testicle. A streptococcus was isolated from this case.

Cases #3, 4, 5, and 9 could be classed as testicular hypoplasia, although the findings in Case #9 are similar to those we have observed in degeneration of the seminiferous tubules.

Cases #1 and 10 are believed to be the result of degenerative changes in the seminiferous tubules—spermatogenesis in Case #1 having been greatly deranged, probably as a result of over use of this bull.

In a few cases an attempt was made to overcome the infertility through the use of sexual rest, a change in the ration, or hormonal therapy. With few exceptions, little improvement was observed. It is quite apparent that degenerative changes in the testicles are very difficult to correct. Further experimental work relative to the relationship of nutrition and hormonal influence on spermatogenesis, as well as of hereditary factors, is required before any reasonably satisfactory form of treatment may be employed.

SUMMARY

The observations made on 10 cases of infertility in bulls are described. These cases were classified as follows:

Testicular hypoplasia	4
Tubular degeneration (testicle)	2
Orchitis	2
Interstitial cell adenoma (testicle)	1
Inability to copulate	1

Further investigational work on the etiology of infertility in bulls is warranted, so that better results from treatment may be expected.

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1. Herman, H. A., and Swanson, E. W., 1941.
Res. Bull. Mo. agric. Exp. Sta. No. 326.

SWINE AND SHEEP DISEASES

R. A. McIntosh, B.V.Sc., M.D.V.

SWINE ERYSIPELAS

Swine erysipelas is an infectious disease caused by a bacillus known as the erysipelothrix rhusiopathiae suis. When the organism induces disease in swine, four different forms are recognized. These are termed acute, subacute, chronic, and diamond skin disease.

Swine erysipelas has been prevalent in continental European countries for many years. Pasteur and Thuillier discovered the causative organism in 1882–83. In Europe it is considered one of the most serious of swine diseases; and vaccination against the infection is a routine procedure in those areas of the continent where the disease is prevalent. In North America, outbreaks of the disease have been reported across Canada and in many parts of the United States. While the pathogenic importance of the infection rests in the disease it causes in swine, nevertheless pigeons, mice, rabbits, lambs, and man are susceptible.

In its epidemiology, the disease is exceedingly variable as to the seriousness of an outbreak, the form of the disease which may occur, and the occasions upon which it may appear. In the writer's experience with one herd which he has had under surveillance for 20 years, the first outbreak was of the diamond skin form. Three years later a second outbreak of the same form occurred. Then, after a lapse of two years, the acute form of the disease appeared, in which a number of young pigs about four or five months old, and a pregnant sow, died in the course of a few days. The pregnant sow also aborted. Some of the cases in this outbreak were not so seriously affected and could be placed in the subacute category. These recovered. Since that occasion there have been several recurrences, but they have all been of the benign skin type, in which only a few animals were affected and no deaths occurred. In this herd the disease has always appeared in the late spring and summer months. It has appeared in pigs that had always been stabled, but more often in other lots which had the run of a small pasture. The last outbreak which was of the subacute form of the disease, occurred in August 1946. The foregoing historical remarks regarding the incidence and character of the outbreaks reveal the variability of the disease and the pathogenicity of the infection.

While much is known about the organism causing the disease, nevertheless there is apparently much to be learned about its pathogenicity and the reasons for the differences which occur in outbreaks of the disease. In the acute form of the disease, the infection is generalized; while in the subacute and chronic form, the bacilli are found in the affected parts. Healthy swine may carry the organism in their tonsils and intestines, and under such circumstances be carriers and spreaders of the infection. Outside of the body, the bacillus is capable of living in the soil for at least a year. Under favourable conditions it may multiply there. It is quite resistant to putrefaction, dessication, and sunlight, and these microbial characteristics may be related to the variability in the nature of the disease.

In the acute form, the sick animal is profoundly affected, remains hidden in the bedding, and has an exceptionally high temperature. The gastrointestinal tract and the skin are the tissues usually most markedly involved. However, an autopsy reveals swelling and congestion of lymph glands, swelling of the spleen, hemorrhagic nephritis, hepatitis and a myocarditis—all of which are indicative of the septic character of the condition. In this form of the disease, the onset is sudden. Death occurs in a relatively short time after the symptoms are observed.

In the subacute form, the progress of the disease is not so rapid. There is evidence of stiffness in the gait and swellings of the legs, ears, and eyelids, with discoloration of large continuous areas of the skin which may ultimately slough. The mortality rate may run as high as 60 per cent.

The chronic form of the disease is characterized chiefly by a polyarthritis, which leads to permanent crippling and unthriftiness. It is not uncommon, also to find chronically affected pigs with an endocarditis and vegetative lesions on the auriculoventricular valves.

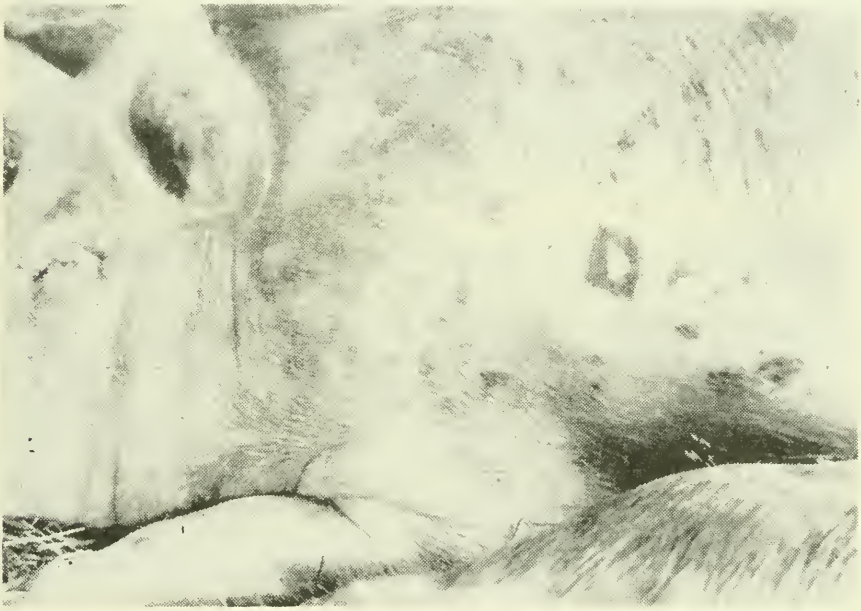
Diamond skin disease is the mildest and most benign form of the disease and is relatively common. It is characterized by the appearance of diamond-shaped hemorrhagic extravasations in the skin along the sides and over the back of the affected animal. It is believed that this is the most frequently occurring form of the disease in North America. However, the ease with which it can be recognized and diagnosed may have a bearing on the belief that it is the commonest type. This form is seldom fatal. Affected animals usually recover in a few days, but the resorption of the discolored areas in the skin requires about two weeks.

There are a few common factors in all forms of the disease. These are high fever in the early stages, and a skin reaction ranging from circumscribed, diamond-shaped extravasations in the skin to large continuous areas of skin discoloration such as are seen in the acute and subacute types. There is also a tendency in all forms for the sick animals to remain quietly hidden in their beds and to refuse food. It is probable that the cellulitis and accompanying soreness of the skin, along with the arthritis, are responsible for the reluctancy to move. Constipation is also a common symptom.

The accompanying prints illustrate, in the first instance, a diamond skin lesion; in the second and third instances, a case in which large continuous areas of the skin over the rump, on the shoulder, throat, and right jowl sloughed. The fourth print is a picture of the hand of a veterinarian who became infected while doing an autopsy on an erysipelas pig.

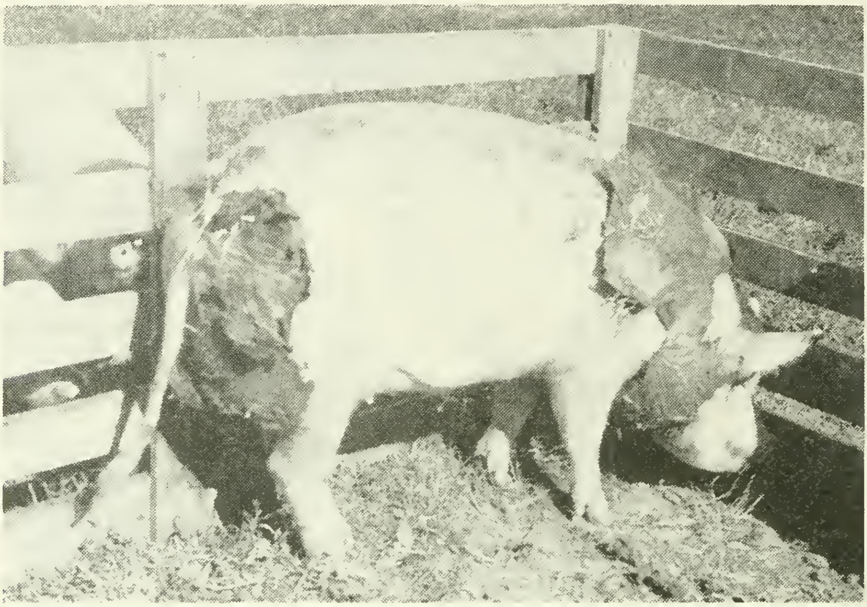
The following data refers to the case of the animal with sloughing skin, whose photographs are shown here. Clinic No. 244, August 19th, 1946:

A purebred Yorkshire sow, about 18 months old, in advance pregnancy, was observed to be off feed two days before a veterinarian made a clinical examination of the case. The attendant had also noticed skin blotches. When examined, the sow had been placed in a colony house with a small pen attached to it. She was lying down, had difficulty in rising, and was very reluctant about moving. Large continuous areas of the skin were discolored, being of a purplish hue. Her temperature was normal. A diagnosis of swine erysipelas was made; but because the sow was not fevered, antiserum was not administered. Laxatives were given.



Diamond skin lesion.

August 22nd: The patient was much worse; had to be assisted to rise and forced to move. The discoloration of the skin had intensified. The tissues of the snout around the nasal orifices had swollen to such an extent as to cause loud and difficult breathing. The animal appeared very toxic. Her temperature was 103.



Report case showing the sloughing areas of theskin.

August 23rd: There were symptoms of abortion. The discolored areas of skin felt cold.

August 24th: Abortion was completed for a number of dead foetuses, and the afterbirth had been expelled.

August 25th: The patient was brighter and much improved. The skin was commencing to separate around the margins of the discolored areas.

From that date onward, the sow steadily improved in her appetite and in her ability to move. The lameness and stiffness ultimately entirely disappeared. During this convalescent state, great areas of the skin extending from the jowl to the throat and back over the shoulder to the rump, particularly on the right side, separated from the underlying tissue and sloughed off. It was an interesting pathological phenomenon to watch. One could not be other than amazed at the speed with which the process of repair must have occurred in the underlying dermal tissue, for in three weeks the great welts of skin which had peeled off were replaced by normal appearing skin.

In connection with this report, it should be mentioned that two other sows, on August 22nd and 23rd respectively, showed symptoms of the disease, had high temperatures, and urticarial-like skin lesions. They were both treated adequately with anti swine erysipelas serum and recovered in a relatively short time. Other contact animals were given a prophylactic dose of antiserum.

For the immunization of swine, three methods have proven successful. These are shown as first, the serum alone method; second, the vaccine method; and third, the simultaneous method, in which living culture and immune serum are used together.

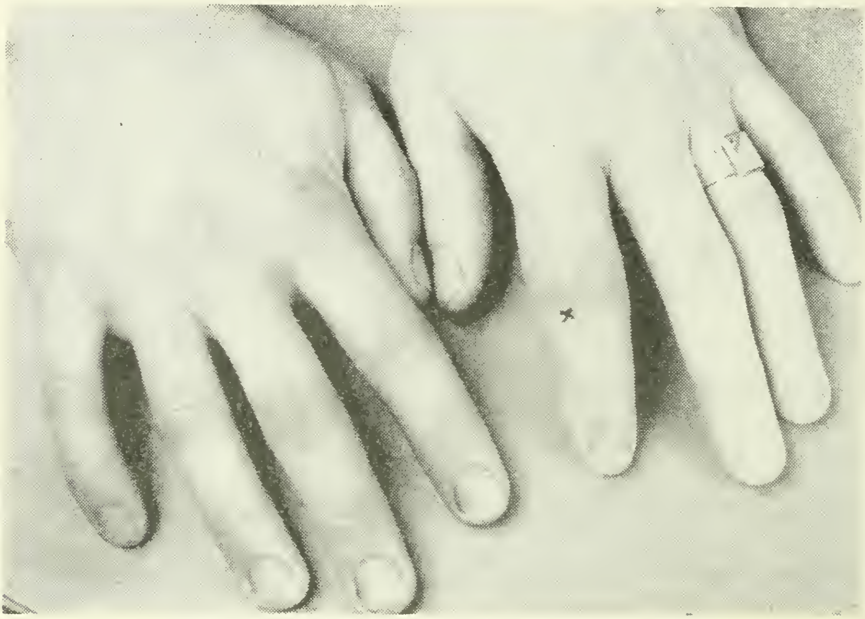
The immune serum is of value both for prophylactic purposes and treatment.

Second view of report case.

The vaccine method was originated by Pasteur shortly after his discovery of the causative organism, and in Europe it is still widely used. Attenuated cultures of the organism are obtained by passing it through rabbits. Two strains are used. The one with lesser virulence is given first; and a week later a second one of greater virulence is administered. Such vaccination develops an immunity which lasts from eight months to one year. This method is not without danger, for upon occasions vaccination erysipelas occurs. Accordingly, it has been largely superseded by the simultaneous method.

The simultaneous method of immunization is accomplished by giving a dose of virulent culture and at the same time a dose of antiserum. The antiserum nullifies the pathogenicity of the culture, but the latter stimulates an active immunity. In countries where the disease is prevalent, this is the immunization procedure most frequently followed at the present time. In the United States, permission is granted for the use of the vaccine in certain areas. In Canada its use is prohibited entirely. The limited use of the vaccine in the United States and the prohibition of its use in Canada is to prevent the possible seeding of the infection in areas and countries where the disease is not prevalent.

In conclusion, it is fitting that reference should be made to erysipelothrix infection in man. Most cases of erysipeloid in humans are observed in abattoir butchers and others who handle pig carcasses, or in farmers and veterinarians who may have contact with erysipelas-diseased animals. Fortunately, the disease in man is self-limiting. It is usually confined to a limited area, such as a hand, where the infection has gained entrance to the tissues through an abrasion. When the infection occurs in this manner, swelling, pain, and erythema appear in the area. The efferent lymphatics are inflamed. If the lesion is in the hand, the axillary lymph glands become sensitive and somewhat swollen. However, very few, if any, septicemic cases have been



X marks the site of the infection. Note the difference in the size of the index fingers.

reported. The inflammatory reaction at the site of the infection usually disappears completely in the period of a month. A specific antiserum for this infection in man is available.

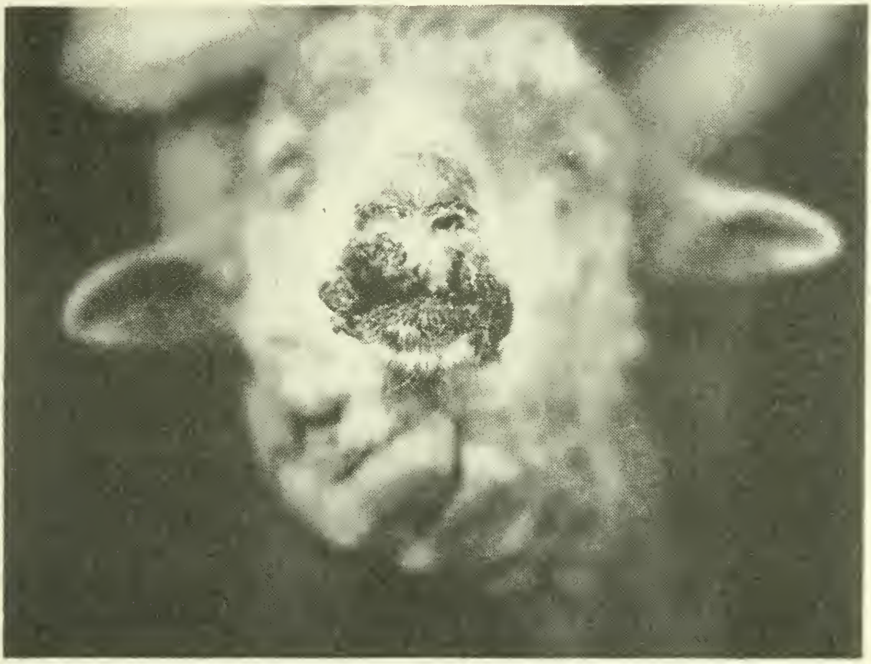
The print, illustrating the infection in man, is that of the hands of a veterinarian who contracted the infection through a very small incision-like abrasion on the knuckle of the left index finger, at the time of an autopsy on a sow. A slight difference in the size of the two index fingers can be noticed. Noticeable also is the disappearance of the wrinkling in the skin of the left finger over the knuckle, as compared with the same finger of the right hand. In reality the swelling in the palm of the hand and around the base of the thumb was quite marked, very erythematous and painful. As has been mentioned, the inflammatory reaction disappeared in the course of a few weeks. The diagnosis of the infection was accomplished by Dr. A. F. Bain of the Bacteriological Department of the College some few years ago, at the time when the reaction was most severe.

CONTAGIOUS ECTHYMA OF SHEEP

Contagious ecthyma is a transmissible disease caused by a filtrable virus and characterized by the formation of vesicles, pustules, and ultimately dense, scabby incrustations on the skin along the margins of the lips. Formerly it was known in America as lip and leg ulceration, for, upon occasions, additional lesions are observed around the hoofhead. It is commonly referred to as sore mouth, while in professional literature it is also termed contagious pustular dermatitis. The disease affects goats as well as sheep and mild infections have been reported in man.

Contagious ecthyma is known to occur in all countries where sheep are kept. The most serious and extensive outbreaks are observed on sheep ranches where large numbers of animals are raised. Spring and fall are the periods of the year in which the disease usually occurs, but it may appear in other seasons. It was formerly believed to be caused by the actinomyces necrophorus, but since the discovery of the virus it is realized that the presence of the former organism is as a secondary invader. In those parts of the United States where the flesh fly is found the sore mouth lesions become complicated with the larvae of the fly. In other places they become maggot-infested upon occasions.

Older sheep are considered more or less immune to the disease, for in all outbreaks lambs and the younger members of the flock are those in which it first appears. However, in flocks that have never experienced the infection, older sheep will manifest the condition. When the disease occurs without complication it usually runs a rather benign course, but in all instances affected animals are unable to eat or ruminate normally for varying periods of time. Consequently they lose flesh and may become quite unthrifty and possibly stunted in their growth.

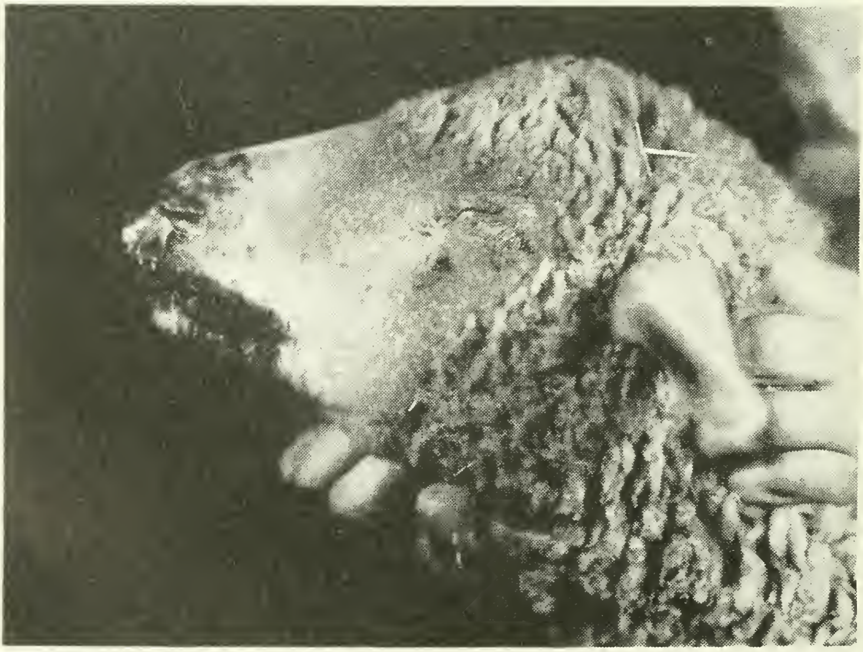


The symptoms of the diseases are failure to eat, interference with rumination, and loss of flesh. A casual inspection may not reveal any observable lesion; but, if the mouths of affected animals are closely examined, the lips are slightly swollen and there is a mucous exudate along their margins which will at times hang in strings from the mouth. Later the exudate becomes more viscid and adhesive. At the merging line of the mucous membrane of the mouth and the skin of the lips, vesicles may be seen. The vesicles proceed to the formation of pustules and ulcers, with a tendency to extend outward on the skin rather than inward on the mucous membrane, although in some instances lesions are observed in the mouth also. Following the vesicular-pustular stage, the exudate coagulates to form hard, black-looking scabs all around the mouth and in some cases up on the nose around the nasal orifices. It is in this scabby stage that the appetites of the sick animals are most seriously affected, for the presence of the scabs interferes with the prehension of food and the mobility of their lips and mouths as the animals ruminate. If the scabby incrustations are removed, a raw, angry dermatitis can be observed.

The mortality rate is low. Greatest losses occur in the younger members of the flock. Economically, serious loss is experienced because of emaciation, stunted growth, and increased susceptibility to other forms of disease. Recovered animals are immune for two years or more. The scabby incrustations which dry and fall off, or are rubbed off, contain the virus of the disease. This virus survives in the soil until the following year. Then, when a new lot of lambs appears, another outbreak of the disease may occur.

Susceptible animals can be immunized by vaccination. Where the disease is prevalent this method of protection widely employed. The vaccine is made from dried scabs, which are thoroughly ground and then suspended in a 50% glycerine solution in the proportion of one part of scab to 100 of the solvent. The site of the vaccination is on the inside of the flank or the thigh where the skin is devoid of wool. One or two superficial scratches are made in the skin, followed by the application of one drop of the vaccine which is rubbed into the area with a small stiff brush. Takes appear as vesicles. From the vesicular stage, it proceeds to the formation of pustules and later becomes covered with a black scab. A vaccination lesion, of the diameter of half an inch, is sufficient to give strong immunity.

While the disease has never been reported in Canada in widespread proportions, nevertheless occasional outbreaks occur. The following report



reveals the circumstances under which the disease appeared in a large lot of feeder lambs about the middle of November, 1946:

The owners of the flock purchased 1,100 feeder lambs in Western Canada. After the shipment arrived in Ontario the flock was allowed to range and feed in a 50-acre cornfield where the corn had ripened and was still hanging on the stocks. The cornfield extended down to a pasture through which ran a creek where the flock watered. An old barn and a large shed were available for shelter. The flock ranged through the cornfield and ate the corn off the cobs. It was in this manner they were to be fattened for market.

About one month after the flock had commenced feeding in the cornfield, it was observed that a number of the lambs were not thriving. The owners thought that they might be suffering from an internal parasitic infestation, and brought one to the College clinic for examination. They also brought the head of another one which had been slaughtered that morning. Both heads showed extreme scabby incrustations along the margins of the lips and on the nose. An autopsy on the entire specimen revealed very little evidence of parasitism. The owners were advised that the lambs were suffering with contagious ecthyma, and that the flock should be carefully examined for other cases. A few days later the farm where they were being kept was visited. In the meantime the entire flock had been given individual inspection, and it was found that about 400 of the animals showed indications of the disease in varying intensity. Those members of the flock showing any signs of the disease were treated by having the affected parts dusted with a powder composed of slaked lime and boric acid. This treatment apparently arrested the progress of the infection. The owners had also isolated about 15 of the lambs whose lips were heavily scabbed, so that they could be given further treatment and special care.

Although it was suggested that vaccination of the remaining unaffected animals might be of value, nevertheless it was felt that the outbreak had passed its peak and that, by keeping the animals under close surveillance and applying topical preparations, the disease could be overcome. These measures were taken, and no further losses were experienced from this disease.

A PRELIMINARY SURVEY OF THE HELMINTH PARASITES OF LAMBS FROM MANITOULIN ISLAND, ONTARIO

H. J. Griffiths, B.S.A., M.Sc., D.V.M., Ph.D.

INTRODUCTION

During the past five years, there has been a great increase in the production of market lambs on Manitoulin Island. Not only has the quantity of lambs marketed shown a steady increase, but also the high quality and uniformity of the lambs produced have gained them an enviable reputation.

The expansion of this industry may be attributed to several factors. Several years ago, the Provincial and Dominion Departments of Agriculture inaugurated a sheep expansion policy to increase production of wool, lamb, and mutton. This policy was greatly stressed throughout the war years. It was realized that the general agriculture and farming methods of Manitoulin

Island were well suited to the keeping of small flocks of sheep. A market for high quality lamb was available within economical shipping distance by rail, and the farmer was assured of cash returns for a minimum of investment and labour. High prices throughout the war period greatly helped the expansion of the industry.

In view of the high quality lamb that was being shipped from this district and because of the rapid increase of the sheep population, it was considered desirable that a survey be made of the helminth parasites of Manitoulin lambs. This preliminary survey was limited to finding out the species of parasites present rather than the number of parasites occurring in each individual. From such findings, the potential danger of the species found could be estimated and a suitable policy outlined for the control of these parasites.

The Island was visited in the Spring of 1946, in order to find out the type of sheep husbandry practiced, the best means of initiating a survey of this nature, and general information on the losses among sheep in this district.

Apart from the slaughter of lamb and mutton for home consumption, no commercial slaughtering is carried out on Manitoulin Island. The majority of the lambs are shipped through the livestock co-operative to packing plants in Toronto or nearby cities. All lambs are ear-tagged. Upon slaughter by the abattoir, the carcasses are rail-graded and the farmer paid accordingly.

This practice of rail-grading Manitoulin lambs presented an excellent opportunity whereby viscera could be collected at the abattoir and the grade and weight of the carcass ascertained. What was of most interest was that the locality and farm on which the lamb was raised could be traced. Market-lamb shipments from Manitoulin Island commence in the latter part of July, and continue throughout the fall and early winter.

The term "parasite" as used in this report refers only to the helminth or worm parasites.

METHOD OF COLLECTION OF PARASITES

The study reported in this paper is based on the examination of the viscera of 60 lambs from Manitoulin Island. The lamb viscera to be examined were selected "on the rail" at a Toronto abattoir. The viscera collected were taken in lots of 10, at irregular intervals, on July 29, August 12, August 26, September 9. October 21, November 4.

The selection of the viscera was at random, except that identification numbers on the lambs were chosen as far apart as possible in order to guard against having more than one or two lambs from the same farm. As soon as the selected lamb was eviscerated, the abdominal viscera and the lungs were tagged and placed on one side.

In a method similar to that described by Swales (1), the abomasum was ligated with string at the omaso-abomasal orifice and at the pyloric valve; the duodenum was left attached to the abomasum. The ileum was ligated just anterior to the ileo-caecal valve, and the large colon at the place where its calibre diminishes to about the width of the small intestine. The rumen was opened and examined grossly for rumen flukes; the rumen, reticulum and omasum were then discarded. The lungs, abomasum, small and large intestines were laid on metal trays and placed in the cooler to remove animal heat. The following day, the viscera were packed and shipped to the laboratory. Upon arrival, the viscera were re-labelled, if necessary, to ensure against obliteration of the number, and dropped into a tank of five per cent formalin solution. Satisfactory identification was ensured by the use of an indelible pencil and tie-on linen labels.

As a general rule, the viscera were slightly formalized before examination for parasites was undertaken. They were laid on the post-mortem table and cut at the places of ligation. Each section was placed in its respective pail labelled abomasum, small intestine, cecum and colon. These organs were then opened, and the contents washed into the pail by a stream of water upon the mucous membrane. The latter was thoroughly rubbed with the fingers to make certain all parasites were washed off into the pail.

The suspension of parasites and ingesta was then screened and washed through a series of stacked sieves (Fisher's U.S. Standard Sieve Series Nos. 10, 20, and 40). Abomasal and the small intestinal contents were sieved through the Nos. 10, 20, and 40 sieves (sieve opening in microns are 2,000, 840, and 420 respectively). Cecum and colon contents were sieved through Nos. 10 and 20 sieves only. Water was sprayed upon the sieves until most of the soluble material was removed. When as much debris and ingesta as possible had been washed through, the sieves were separated and inverted over large circular glass moist culture dishes; and the contents washed off with water. The contents of each dish were then allowed to settle and the supernatant fluid poured off. If only a qualitative examination is being made of the parasites present, the contents of the dishes may be pooled and poured into a glass preserving jar or sealer, labelled, and preserved with five per cent formalin. The jars may then be placed on one side and examined as desired.

SORTING AND IDENTIFICATION OF THE PARASITES

For examination of the helminths, contents of the sealers were carefully picked over, and a representative sample of parasites was transferred to Syracuse watch glasses for microscopic examination. A cursory estimate of the severity of the infestation was recorded. A low power binocular (36X) was used for examination of the worms present. Specific identification was carried out under the compound microscope.

At all times, careful examination was made for the presence of nodules on the viscera. The lungs were not preserved in formalin but were examined in the fresh state for the presence of worm parasites. Nodules in the lung parenchyma were dissected out, pressed between glass plates, and examined for the presence of adult lung worms or larval forms.

PARASITES RECORDED AND THEIR ABUNDANCE

From the 60 lambs examined, some 14 species of helminth parasites were recorded. They are listed as follows:

Class—Cestoda (tapeworms):
    Moniezia sp.

Class—Nematoda (roundworms):
    Muellerius capillaris, Dictyocaulus filaria, Haemonchus contortus,

Ostertagia circumcincta, Trichostrongylus spp., Nematodirus sp., Cooperia sp., Monodontus trigonocephalus, Strongyloides papillosus, Trichuris ovis, Oesophagostomum venulosum, Chabertia ovina.

The incidence of infestation with the different species of parasites is listed in table 1.

TABLE I

Helminth Parasites of 60 Market Lambs from Manitoulin Island

Parasite	Where Found	No. of Lambs Infested	Percentage Infested
Muellerius capillaris*	Lung tissue	19	31.6%
Dictyocaulus filaria	Bronchi	2	3.3
Haemonchus contortus	Abomasum	45	75.0
Ostertagia circumcincta	Abomasum	60	100.0
Trichostrongylus sp.	Abomasum	22	36.6
Nematodirus sp.	Small intestine	59	98.3
Cooperia sp.	Small intestine	12	20.0
Trichostrongylus sp.	Small intestine	12	20.0
Monodontus trigonocephalus	Small intestine	27	45.0
Strongyloides papillosus	Small intestine	26	43.3
Moniezia sp.	Small intestine	21	35.0
Trichuris ovis	Caecum	51	85.0
Oesophagostomum venulosum	Large intestine	5	8.3
Chabertia ovina	Large intestine	42	70.0

*Note.—In the case of M. capillaris, identification was based on the result of pressing out the gross lung lesions and recording the presence of adult females and larvae. No adult male worms were recovered.

Gross examination was made of the intestines of the 60 lambs for lesions due to Oesophagostomum columbianum; no nodules were recorded. Rumens from these animals were examined grossly at the abattoir, but the presence of rumen flukes was not observed.

FREQUENCY OF INFESTATION

Throughout this survey, lambs were examined for the purpose of routine diagnosis of helminthiasis rather than for numbers of individual parasites. The seasonal fluctuation of parasites was not recorded, because of the irregularity of collection of viscera and the small number of viscera examined. The subject of seasonal variation of species of helminth parasites of sheep in Canada has been discussed and reported in detail by both Swales (1) and Fallis (2). The frequency of infestations with the different species of worms is given in Table 1.

Although none of the 60 lambs yielded less than three representatives of different genera of common sheep parasites, no very severe parasitic infestations were recorded. Two individuals were found to harbour representatives of 10 different genera.

TABLE II

Number and Percentage of 60 Lambs Harbouring Parasites of Different Genera

Number of Genera of Parasites	Number of Lambs Infested	Percentage of Lambs Infested
3	2	3.3
4	3	5.0
5	7	11.6
6	19	31.6
7	7	11.6
8	12	20.0
9	8	13.3
10	2	3.3

From Table II it will be seen that the greatest number of animals was infested with representatives of six genera.

The number of parasites found on post-mortem examination was quite variable. In no instance were any very heavy infestations experienced, with the exception of quantities of tapeworm. In each of five lambs, more than half-a-pint of tapeworms was collected.

The genera most commonly found were Haemonchus, Ostertagia, Nematodirus, and Trichuris. Representatives of these genera were present in 75 per cent or more of the lambs examined. Chabertia was found in 70 per cent of the lambs. Only in one case where chabertia occurred were more than a dozen specimens observed; this individual yielded 73 specimens.

Monodontus trigonocephalus was present in 45 per cent of the lambs, but no individual harboured more than four or five specimans.

Strongyloides papillosus was recorded from 43 per cent of the lambs, but all infestations were light. The genus Trichostrongylus was found in 36 per cent of the true stomachs, and in 20 per cent of the small intestines. No attempt was made to identify these parasites other than as to genus.

The common tapeworm of lambs, Moniezia sp. was recovered from 35 per cent of the small intestines, while Oesophagostomum venulosum was present in eight per cent of the lambs.

Of the lungworms, D. filaria was found in three per cent and M. capillaris in 31 per cent of the lambs.

It is of considerable interest to note that Ostertagia circumcincta was encountered in 100 per cent of the true-stomachs, and Nematodirus sp. in 98 per cent of the 60 lambs.

GEOGRAPHICAL DISTRIBUTION OF PARASITES ON MANITOULIN ISLAND

In view of the size of Manitoulin Island (approximately 1,223 square miles) the results of this preliminary survey of the parasitic fauna of 60 lambs should be interpreted with caution, with respect to parasite distribution. However, the random selection of the sets of lamb viscera has resulted in the examination of a few lambs from widely scattered areas throughout the entire Island.

As would be expected on a small island, the helminth parasites are uniformly and widely disseminated throughout. Generally speaking, no one species was recorded from any one part of the Island, with the exception of D. filaria. This parasite was only recorded in two animals, both of which happened to come from different farms in the region known as "Barrie Island". O. venulosum was recorded from two areas only. It is of interest to note that deer are very plentiful in both these locations.

WEIGHTS AND CARCASS GRADES

All lambs examined in this survey were carcass-graded at the abattoir. The grades and classes assigned to the 60 lambs in table III are clarified by the following standards quoted from the Live Stock and Live Stock Products Act, 1939.

Grade A: Carcass having excellent conformation, finish and quality, with short plump legs, broad thick backs, thick full loins, ribs and chucks, and short plump necks; legs and shoulders well covered, but not excessively fat.

Grade B: Carcass having good conformation, finish and quality; well proportioned and reasonably plump, but may be slightly deficient in plumpness as compared to Grade A; legs and shoulders moderately well covered but not excessively fat.

Grade C: Carcasses lacking in conformation, finish and quality, as compared to Grade B; but not excessively fat.

Classes: Grades A, B and C shall be subdivided into classes according to weight as follows:

Class A:

Class 1. Lamb carcasses weighing not more than 46 pounds.

Class 2. Lamb carcasses weighing not less than 47 pounds and not more than 51 pounds.

Class 3. Lamb carcasses weighing not less than 52 and not more than 56 pounds.

Class 4. Lamb carcasses weighing not less than 57 pounds.

Class B:

Class 1. Lamb carcasses weighing not more than 46 pounds.

Class 2. Lamb carcasses weighing not less than 47 pounds and not more than 51 pounds.

Class 3. Lamb carcasses weighing not less than 52 pounds and not more than 56 pounds.

Class 4. Lamb carcasses weighing not less than 57 pounds.

Standards for Grade C and D are not listed, since none of the 60 lambs graded below Grade B, Class 2.

In Table III is shown the rail-grading of the lamb carcasses and the percentage of each grade and class.

TABLE III

Number and Percentage of Grades on 60 Manitoulin Lamb Carcasses

Grade	No. of Carcasses	Percentage Grade
A.1	29	48.3
A.2	16	26.6
A.3	5	8.3
A.4	1	1.6
B.1	8	13.3
B.2	1	1.6

From Table III it will be seen that approximately 85.0 per cent of the 60 lambs fell into Grade A; the lowest grade and class recorded was B.2.

PATHOGENICITY OF SPECIES RECORDED

The question of the degree of worm infestation of sheep which produces clinical disease is still controversial, largely because of the many complicating factors that must be given consideration. However, it is recognised that certain species are far more pathogenic than others. As a general rule, mixed infestations are considered more harmful than single species. The latter condition is seldom encountered in farm flocks. For purposes of comparison, arbitrary standards have been set up by investigators, whereby infestations in excess of these numbers may be considered as harmful. Swales (1) in his studies on the helminth parasites of sheep in Canada has estimated and listed tentative standards suitable for conditions in the Dominion.

The harmful effects of H. contortus are well known. This species was recorded from 75.0 per cent of the lambs examined, but only in a few instances were more than 100 specimens collected from any one abomasum. On the other hand, O. circumcincta, was recorded from the abomasi of all 60 lambs. This parasite, though not considered as harmful as H. contortus, is considered by Robertson (3) as being able to produce fatal results when present in numbers in excess of 8,000 individuals. A few fairly heavy infestations of Ostertagia were observed, but, generally speaking, the infestations were light. In the case of Trichostrongylus sp. both in the abomasum and in the small intestine, no heavy infestations were encountered.

In the small intestines, Nematodirus sp. was by far the most common. At the present time, little is known regarding the pathogenicity of this species. It is not considered as one of the more harmful parasites.

Cooperia sp., Monodontus trigonocephalus, Strongyloides papillosus and Moniezia sp. were all encountered frequently, but, with the exception of five infestations of Moniezia sp., small numbers of these worms were observed.

T. ovis, O. venulosum and C. ovina from the large intestine and caecum were never observed in sufficient numbers to be considered pathogenic. Infestations seldom yielded more than 10 worms of each of these species in one individual lamb.

In the case of the lungworms, the only evidence of damage resulting from M. capillaris was the presence of the characteristic nodules in the sub-pleural pulmonary parenchyma. No severe cases of pneumonia were observed.

DISCUSSION

In these preliminary studies, an attempt has been made to determine the helminth fauna of lambs from Manitoulin Island. The work was undertaken with the intention of ascertaining what parasites were commonly found in this region so that recommendations could be made regarding the program of anthelmintic treatment that should be followed and promoted.

Although the number of lambs examined is small and insignificant, as far as a detailed overall picture is concerned, the data collected have shown which parasites are widely distributed throughout the Island and the frequency of their occurrence. It will be appreciated that these 60 lambs were all of high quality, and as such were probably "good feeders". Even though practically all these animals carried an appreciable worm-burden, it is improbable that the worm infestation had much effect upon their development. However, it must be kept in mind that these same lambs might have been ready for market earlier and made faster gains in weight had this worm infestation been absent or reduced.

Members of the genera of Haemonchus and Oesophagostomum are usually considered most harmful to sheep in Eastern Canada. H. contortus was found to be wide-spread in its distribution amongst these 60 lambs; but due to such factors as good nutritive pasture and large grazing area per animal, treatment by drenching, suitable summer rainfall and temperature etc., this parasite does not appear to have been an economic factor, *this season*, in the growth of these lambs. However, this parasite must always be regarded as a pathogen and kept under control to prevent its ravages.

Of the genus Oesophagostomum, evidence of nodules on the viscera or adult O. columbianum in the intestines was not noted. O. venulosum was recorded, however, and was traced to localities where deer are known to be abundant. Further examination of older animals is necessary to corroborate these findings regarding the absence of O. columbianum.

The wide distribution of Ostertagia circumcincta, and its presence in the stomachs of all 60 lambs, indicates that this parasite should be looked upon with suspicion. In the past, this parasite has not been considered as one of major importance. However, should certain favourable conditions arise, there appears to be no reason why this species cannot become pathogenic.

As far as Trichostrongylus sp., Cooperia sp., Moniezia sp., and Nematodirus sp. are concerned, they also must be regarded as potential pathogens if conditions are present which favour such a role. Chabertia ovina and Trichuris ovis have been shown to be widely distributed, and the occurrence of disease resulting from these parasites cannot be overlooked, should heavy infestations occur.

In evaluation of the results of this preliminary survey, due consideration must be given the small number of lamb viscera examined, the random method of selection of viscera, and the fact that seasonal fluctuations have not been given consideration.

ACKNOWLEDGMENTS

It will be appreciated that a survey of this nature could not have been carried on without the help of several individuals. The writer wishes to thank Mr. F. H. Cotton, Agricultural Representative, Gore Bay, Ontario, for his kind assistance at all times. The excellent co-operation of the officials and employees of Canada Packers Limited, Toronto, is gratefully acknowledged. The Inspectors of the Department of Agriculture co-operated to the fullest extent at all times. Special thanks are due Drs. D. J. McLellan and W. E. Nicholls, and to Mr. P. O. VanSickle, for their invaluable help and many courtesies.

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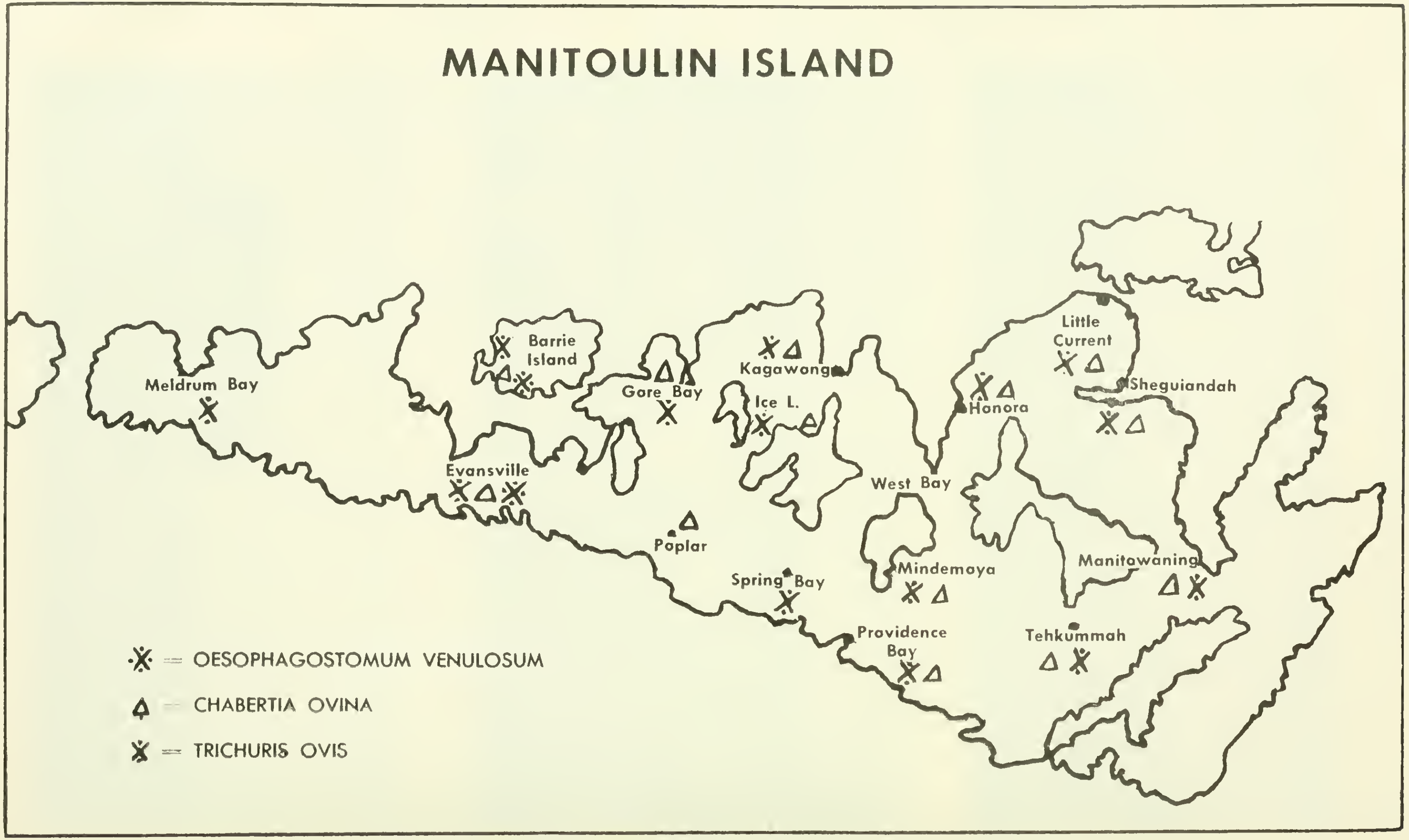
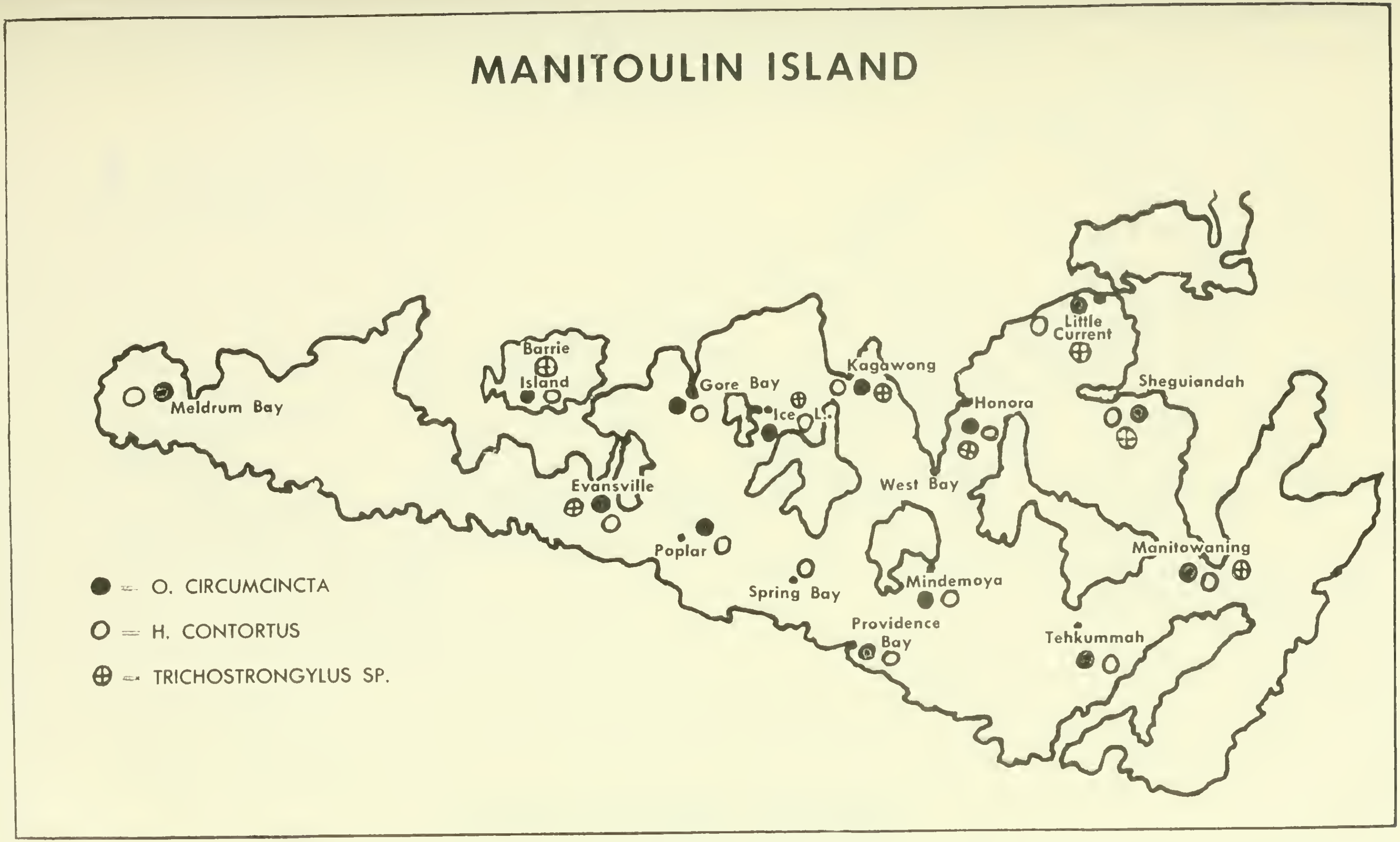
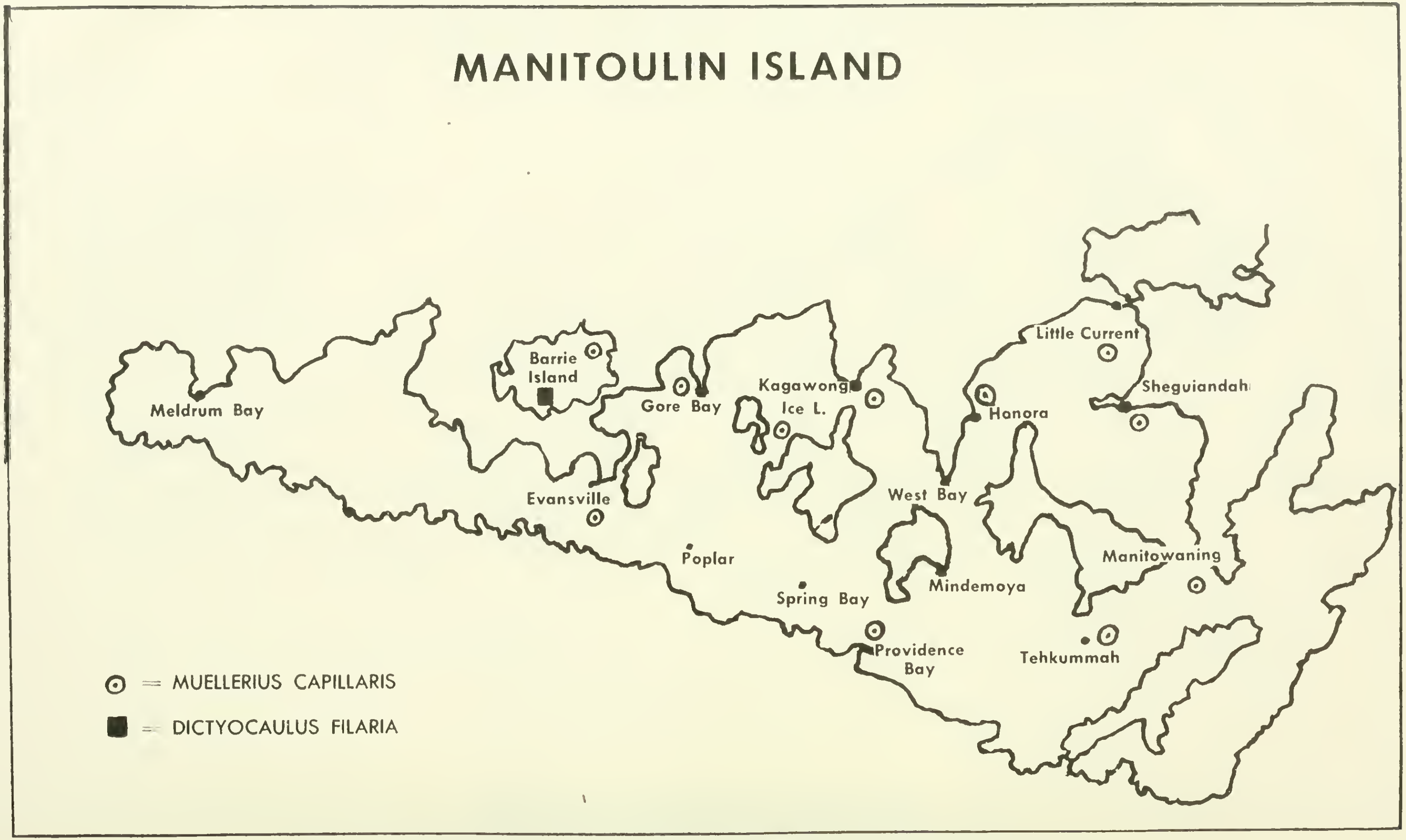

MANITOULIN ISLAND
Meldrum Bay
Barrie Island
Evansville
Gore Bay
Poplar
Kagawong
Ice L.
Spring Bay
West Bay
Mindemoya
Providence Bay
Honora
Little Current
Sheguiandah
Manitowaning
Tehkummah
= OESOPHAGOSTOMUM VENULOSUM
= CHABERTIA OVINA
= TRICHURIS OVIS

Geograghical Distribution of Oesophagostomum, Chabertia and Trichuris

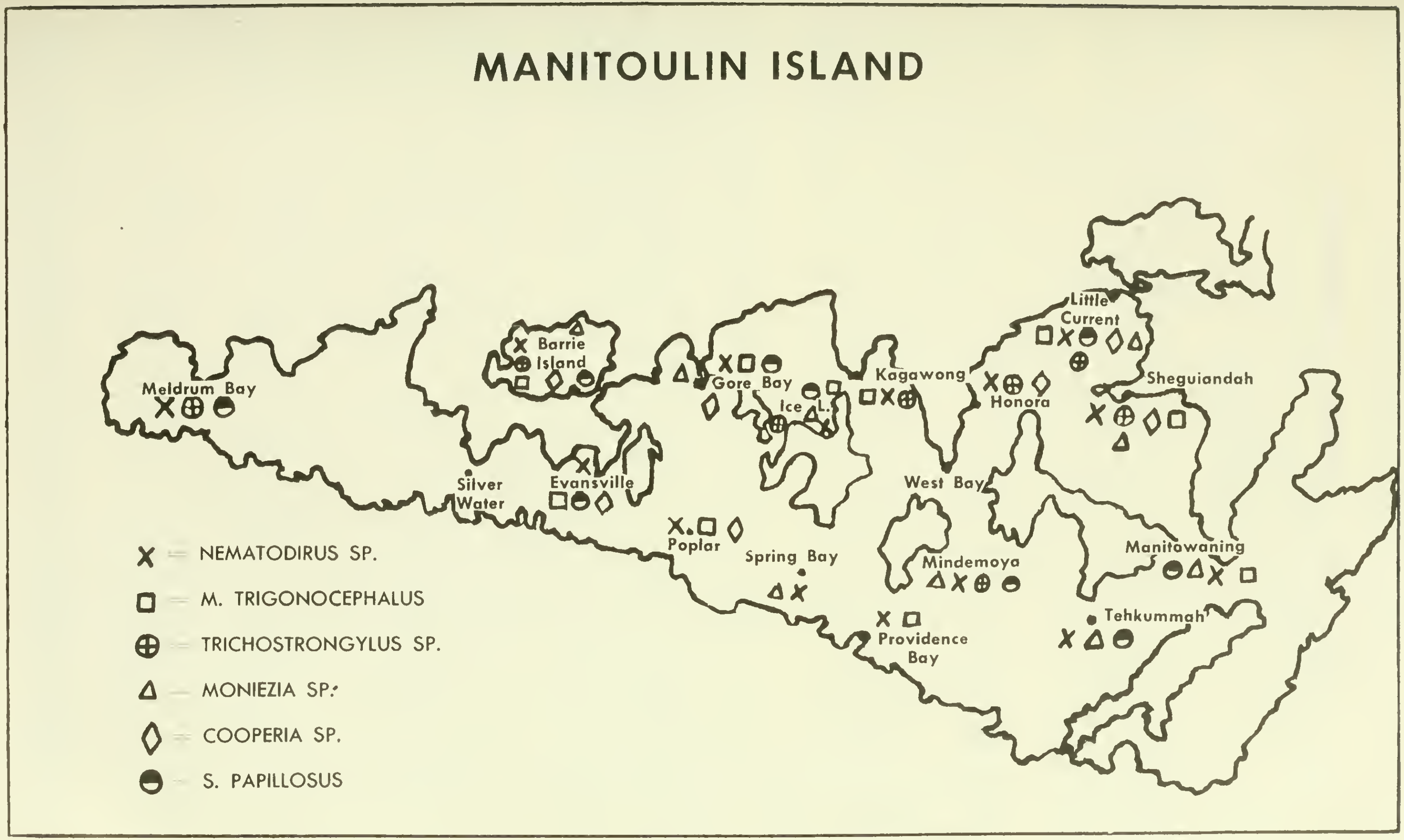

MANITOULIN ISLAND
Meldrum Bay
Barrie
Island
Evansville
Gore Bay
Ice L.
Poplar
Kagawong
Spring Bay
Providence
Bay
Honora
West Bay
Mindemoya
Little
Current
Sheguiandah
Manitowaning
Tehkummah
● = O. CIRCUMCINCTA
○ = H. CONTORTUS
⊕ = TRICHOSTRONGYLUS SP.

Geographical Distribution of Ostertagia, Haemonchus and Trichostrongylus


MANITOULIN ISLAND

Meldrum Bay
Barrie Island
Gore Bay
Kagawong
Ice L.
Little Current
Sheguiandah
Honora
West Bay
Evansville
Poplar
Spring Bay
Mindemoya
Manitowaning
Providence Bay
Tehkummah
⊙ = MUELLERIUS CAPILLARIS
■ = DICTYOCAULUS FILARIA

Geographical Distribution of Muellerius and Dictyocaulus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Barrie Island
Silver Water
Evansville
Gore Bay
Ice L.
Poplar
Spring Bay
Kagawong
West Bay
Honora
Little Current
Sheguiandah
Mindemoya
Providence Bay
Manitowaning
Tehkummah
X — NEMATODIRUS SP.
□ — M. TRIGONOCEPHALUS
⊕ — TRICHOSTRONGYLUS SP.
△ — MONIEZIA SP.
◇ — COOPERIA SP.
◒ — S. PAPILLOSUS

Geographical Distribution of Nematodirus, Monodontus, Trichostrongylus, Moniezia, Cooperia and Strongyloides

MINK AND FOX DISEASES IN ONTARIO

A. H. Kennedy, B.S.A., V.S., D.V.M., D.V.Sc.

MINK DISTEMPER

Seventeen outbreaks of distemper among mink were brought to the attention of the Ontario Veterinary College during the past fiscal year. Fortunately, losses on the ranches were few, as the fur farmers seemed to be on the alert for the disease and brought animals to the College for examination, whenever distemper was suspected. An early diagnosis, and preventive treatment applied, seemed to prove of value in checking the disease.

On five of the 17 ranches mentioned, the disease first appeared among breeding mink that had been brought in from other provinces. Some of the mink imported into Ontario showed the infection on arriving at the ranch. These mink were brought to the Ontario Veterinary College for examination. As a result of this, steps were taken to prevent the spread among the other mink on the ranch. On three of these five ranches no mink were lost, other than those that had been brought in from the other provinces. The losses on the remaining two ranches were light. Preventive measures seemed to stop the spread of disease and eliminate it from the ranch with no further difficulties or losses.

A controversy arose over where and how the imported mink acquired the infection. It is a known fact that some of the mink came from areas where mink distemper had existed during the last summer. In other instances, the mink came from areas or ranches where distemper was not known; but, on or soon after, arrival at the ranch, the mink came down with the infection. In one case, a mink had been kept on a ranch for 14 days, before showing any indications of the distemper infection. Another case showed clinical symptoms of the disease when it arrived at its destination, although it came from a ranch and an area where mink distemper had not occurred.

One shipment, containing a number of mink from several ranches, came into Ontario. A distemper-infected mink was among the others. The cages containing the mink were piled one on top of the other. No protection was provided to prevent discharges and material from falling or passing into one cage from another. The mink in this shipment were distributed to ranches in Ontario. Soon after they arrived, a number of mink came down with distemper infection. Fortunately, precautions had been taken to isolate the mink for a few days before placing them on ranches with other animals. During this time, symptoms of disease developed which proved to be distemper. Because the mink were isolated, no further distemper infection developed in any of the ranches to which the new animals were brought.

These experiences bring up some points that should be considered by fur farmers who are buying breeding stock to add to their ranches.

1. Did the mink in question pick up the infection during transit?
2. Were the necessary precautions taken during transit, to protect the mink from coming in contact with other animals, such as dogs, when being transferred from the railway station and from train to train?

3. When is the best time of the year to purchase breeding stock in order to run a minimum risk from infectious or contagious diseases?
4. Should fur farmers adopt regulations concerning authentic information on the health and diseases of fur bearing animals that are being imported, or brought into one area or province from another area or province?
5. Should isolation of fur bearing animals, and certificates covering their isolation or freedom from infectious or contagious diseases covering a period of time, be provided by the seller or exporter to the purchaser of fur bearing animals, especially when these animals are being shipped a considerable distance, as from one province to another or from one part of the province to another?
6. Should all animals brought onto a ranch be completely isolated for a period of time covering the incubation period of the infectious or contagious diseases?
7. Should there be regulations concerning the transportation and handling of fur bearing animals, which would protect them from coming into contact with animals such as dogs—or with places where dogs have been—when the animals are held at railway stations, or transferred from one train to another?
8. Should there be regulations for protective cages, or providing adequate measures to protect fur bearing animals from coming in contact with refuse from other cages, during transit?

The Ontario Veterinary College carries a Dominion Government license for the importation of formol tissue vaccine. A bank of these products for controlling and preventing mink distemper is kept on hand at the College, for ready and quick distribution to veterinarians, when mink distemper outbreaks occur on a ranch. The owner of a fur farm is advised to contact his local veterinarian when distemper is suspected on his farm, and to have the veterinarian bring or send some of the suspected animals to the Department of Parasitology and Fur Bearing Animals, Ontario Veterinary College, Guelph, Ontario, for diagnosis. The owner can, of course, do this himself. If the condition is found to be distemper, the local veterinarian is advised of the findings. He is able to procure sufficient formol tissue vaccine from the Veterinary College to inoculate all the animals on the ranch where the disease has occurred. Full directions as to use and administration are provided.

In order to control and prevent the spread of fox and mink distemper, it has been requested that all outbreaks occurring on ranches in Ontario be reported to the Ontario Veterinary College. The College needs this information so that a record may be kept of the districts and the ranches where distemper has occurred. This makes it possible to trace the source or origin of distemper outbreaks, in many cases. It also makes it possible to keep watch for further outbreaks in areas and ranches close to a possible source of infection. In this way, with the co-operation of veterinarians and fur farmers, distemper can be controlled.

It is believed that in provinces or areas where distemper has not occurred to any extent, it is a better policy to aim at controlling the disease among the fur farms by isolation and precautionary measures, than to make animal inoculations. Once the fur farmers in an area have inoculated all of their animals, it is necessary to keep up the inoculations at frequent periods. Inoculations may be rather costly and are often inconvenient to the fur farmer. Until the disease is so prevalent that it demands the inoculation of the mink in an area or territory, it is felt that animals should not be inoculated. Inoculations, where they are necessary, should be made with discretion and under proper supervision.

FOX DISTEMPER

Three outbreaks of fox distemper have been encountered among the fox ranches in Ontario during the past year. One of the outbreaks appeared as a neurotropic or nervous form of fox distemper, with convulsions the major symptom manifested. Studies on the various aspects of the disease were made, and papers are being prepared covering various phases of the epizootic.

A bank of fox distemperoid is kept on hand at the Ontario Veterinary College and is made available to the fox farmer through his local veterinarian should it be desired at any time.

TUBERCULOSIS IN MINK

During the last few months, mink infected with tuberculosis have been sent to the Department of Parasitology and Fur Bearing Animals from five different ranches in Ontario, for post-mortem examinations.

History of the Disease

The history of all five cases appeared alike in nature. The owner of one of the ranches said that he had lost two mink manifesting similar conditions last summer. They seemed to become very thin, lose their appetite, and go off their food for about a week before they died. Another owner said that he had lost a mink from the same condition in the earlier part of the winter, stating "The mink kept getting thinner and thinner until it died." On the third ranch, three mink had died within a few days of one another. They seemed to lose their appetite, grow weak, lose flesh rapidly, and become very thin before death.

Post-mortem Appearances

The carcasses of all the mink were emaciated. The tissues were of a peculiar, pale, yellow colour. When the abdominal cavity was opened, numerous, quite large, cheesy-like necrotic areas, ranging in size from that of a common pin head to that of a large pea, were observed. These were partially embedded in the intestinal wall along the intestinal tract. In two of the cases the spleen was infected and showed large areas of caseation, which cut with a hard, gritty resistance to the knife. Small, hard nodules appeared throughout the mesenteric and lymphatic tissues of the abdominal cavity.

Bacterial Findings

Portions of tissue containing the lesions showed numerous rod-shaped, acid-fast organisms. The organisms were grown on broth media; and material containing the organisms from the lesions was inoculated into guinea pigs and rabbits. Characteristic lesions containing tuberculosis organisms of the bovine type were recovered.

BOTULINUS POISONING IN MINKS

Among the diseases that may affect mink is botulinus poisoning. The powerful botulinus toxin develops in food materials—particularly those that are old or stale—where decomposition or fermentation-like processes have set in. Such foods, when fed to mink, produce a quick, devastating loss among the animals. The disease is difficult to diagnose. It is often confused with other forms of food poisoning conditions or food intoxications, and with vitamin B-1 or thiamine deficiencies.

In September, 1945, botulinus poisoning occurred suddenly on one ranch, and rapidly caused a considerable loss before it was recognized.

History of the Disease

In the early afternoon, when the mink on the ranch were being watered, all animals seemed normal. By seven o'clock that evening, 20 mink on the ranch were found dead in their pens. Fifteen more mink had died by noon on the following day. Others of the animals on the ranch showed evidence of being ill. The food that had been placed on the wire of each pen the previous evening was not eaten by a number of the animals.

The owner brought several of the dead mink to the College for post-mortem examination, the second day after the losses had commenced. Severely affected minks had seemed to die suddenly. Just prior to death, they became paralyzed in the hind quarters and loin region. This was followed by a collapse and sudden death. It was observed that a number of the mink that had died had been running around their pens, in apparently normal health, when all of a sudden they dropped in their tracks. They sank down and died, lying on their abdomen. Some of the mink were found dead where they had collapsed at the watering pans. In some cases, their heads hung over the side of the watering pan into the water. Other mink collapsed and died in the entrance to their nest boxes. Some were found dead in the nest boxes. Others appeared to be less affected and showed only slight incoordination of movement or seemed stiff in the hind quarters over the region of the loin. The mink so affected would linger a much longer time before dying.

The owner also brought to the College some of the food that had last been fed to the mink. On examination, this food was found to possess a peculiar, sour-like odor and to appear somewhat fermented. The owner was questioned as to the source of the food. It was learned that he had obtained some spleens from horses that had been kept in cold storage for more than a year. He stated that the spleens did appear somewhat soft, slimey, and perhaps a little sour-smelling. When the spleens were washed thoroughly in cold water, the slimness and sour smell disappeared. Because of their questionable appearance, not as many spleens as usual were fed. However, there was a sufficient amount of spleen in the ration to cause a severe loss among the mink.

To substantiate or verify the diagnosis, animal tests were carried out. Two guinea pigs were fed some of the infected food materials from the ration mixture that had been brought to the College. As much of the spleen as could be found was removed and fed to the guinea pigs, at about four o'clock in the afternoon. The next morning, one guinea pig was dead. The other guinea pig died in the early afternoon. The guinea pig, that died last, appeared normal in the morning. Toward noon it was thought that he appeared a little stiff over the back, and showed slight incoordination when moving. In the early afternoon, he was found dead in the cage.

Post-mortem Appearances

All of the mink examined were in excellent condition. The lungs were slightly congested. The thymus glands were enlarged. No inflammation was observed in the gastric mucosa. No food was found in the stomach. The intestinal mucosa showed a severe inflammation throughout the entire length. The liver showed a white, lard-like mottling. The kidney and bladder appeared normal. Bacterial examinations from the liver, lungs, intestines, and kidneys were made.

Treatment

As botulism was suspected, the owner was advised to have his local veterinarian treat all of the mink with polyvalent botulinus anti-toxin, as soon as possible. That evening, the local veterinarian treated all of the mink on the ranch with 300 units of polyvalent anti-toxin. Within a few hours after the anti-toxin had been given, an improvement was noticed in visibly affected mink. The losses suddenly stopped after the anti-toxin was administered. Within a week's time, the local veterinarian reported that the condition had cleared up and the animals were normal in appearance.

Remarks

The animal tests that were conducted by feeding guinea pigs the suspected food materials and the response of the affected mink to the administration of polyvalent botulinus anti-toxin, substantiates fairly well the diagnosis of botulism.

Bacterial Findings

Bacterial examinations from the liver, lungs, intestines, and kidneys were negative to pathogenic organisms.

NUTRITIONAL TROUBLES ON A FOX RANCH

When handling diseases of fur bearing animals, one often encounters conditions and symptoms that appear not to be connected with any specific type of disease. Such conditions usually have a number of contributory causes which have been developing for varying lengths of time. Poor ranch husbandry, management, and feeding are often the causes of these conditions. Members of the staff of the Department of Parasitology and Fur Bearing Animals had experience recently in observing and handling trouble of this nature on a small fox ranch.

A number of litters were lost, soon after birth, on the ranch in the spring of 1946. The owner enquired from neighboring ranches as to what might be the probable causes for the loss of litters. He was informed that he was possibly feeding his foxes too much food. This would make the animals too fat and cause milk fever to develop in the foxes, after the litters were born. Another suggestion offered was that he worried, bothered, and paid too much attention to his foxes—which resulted in pampered, overfed, fat foxes that were unable to secrete, or furnish sufficient milk for their litter. Foxes in that condition destroy their young; or their young die from starvation, as a result of the vixen not secreting any milk in the mammary glands. As a result, the owner decided to starve his foxes to a point where they would be thin, and thus eliminate the possibility of his vixens developing the so-called "milk fever".

About a month before the mating season, the rations fed all of the foxes, both male and female, were reduced in amounts. The reduction in the ration continued, until it could visibly be noticed that the foxes were losing flesh and becoming thin. Mating season approached, with some of the males in a thin condition and not inclined to mate. As a result, it was thought that not enough males were available for the breeding season. It was found, however, that some of the females did not show any desire for mating; so the number of males available was sufficient to mate the females manifesting oestrum. Some of the females mated did not conceive. When whelping time arrived, only about half of the females on the ranch showed any signs of being pregnant.

About the middle of the gestation period, one of the pregnant females on the ranch developed a marked diarrhoea. She went off feed, and soon appeared very thin. A day or two later, a pregnant female in the adjoining pen developed a diarrhoea and lost her appetite. The local veterinarian was consulted. He prescribed 16 grains of sulfaguanidine, to be given each infected fox in a small amount of food once a day. The sulfaguanidine appeared to have no effect in overcoming the diarrhoeal condition. At the beginning of the whelping season, all the foxes on the ranch were troubled with a diarrhoeal condition. Two females and one male fox had died from the infection. Before death, the foxes became very weak and lapsed into a coma. They would lie on their side with the head thrown back, and the mouth open, as if they were gasping for breath. At times they would evince a pawing motion with their front feet. They remained in this condition for nearly two days before dying. Post mortem examination revealed the following lesions.

Macroscopic Findings

The carcasses were in a very thin condition. The lungs of all foxes appeared congested. The livers were of a reddish or sienna colour. The intestines of all three foxes contained a soft, bubbly, dirty, greyish-coloured ingesta. The large bowels were about twice the normal diameter, and distended with gas. The muscle tissue of the male fox showed a yellowish condition. Its bladder was considerably distended with urine. Reddish-white coloured masses and sediment were observed floating in the urine. The sediment and masses were removed from the bladder and collected in a beaker. This material was washed and centrifuged. When small portions of the mass were examined under the microscope, they were found to be composed of spermatozoa. These had gained entrance, and accumulated, forming masses or clumps in the bladder. Blood was also found in the bladder. The prostate across the neck of the bladder was enlarged to about three times its normal size. The kidneys were enlarged, and of an ash-gray colour. One of the female foxes showed a pussy condition of the eyes. The tongue appeared dry and parched, with areas of eroded epithelium on the dorsal surface, particularly near the base. The kidneys, bladder, and spleens of the female foxes appeared normal for both size and colour. The muscle tissues of both female foxes were pale. Neither fox was pregnant.

The Microscopic Findings

The microscopic examination of tissues taken from the male fox showed an oedema and hyperaemia, with no cell infiltration of the lungs. In the liver there was a well marked fatty degeneration. Nuclei were degenerated in many cells. In some areas the degenerative process had advanced to necrosis. In the spleen there was a great deal of blood pigment throughout the spleenic pulp, and the capillaries were engorged. In the kidney, some glomeruli showed the capsule to be thickened; there was an early glomerular nephritis. Between the tubules there was an increase in the fibrous tissue network. Fatty degeneration and necrosis was seen in the epithelial cells of some tubules.

In the female foxes, the microscopic picture was similar. The livers showed a cloudy swelling of the hepatic cells. The sinusoids were full in some areas. In the spleens, the capillaries in the spleenic pulp were engorged. There was no evidence of cell infiltration in the kidneys. Degenerative changes were observed in some areas. The nuclei of the cells were shrunken, and many stained intensely while others were fragmentary.

The conclusion drawn from the histopathological picture is that there was no evidence to suggest the presence of an infection. On bacteriological examination, no specific bacteria could be found.

Results of the Bacteriological Examination of the Fecal Sample

The fecal samples were all cultured on MacConkey's agar, and in tetrathionate broth. The MacConkey's agar culture was negative for salmonella. On subculture from the tetrathionate broth, however, non-lactose fermenting colonies were obtained. These colonies produced some acid from saccharose. The organisms were not agglutinated by any of the stock salmonella antisera, and were not, therefore, salmonella. They were probably slow-lactose fermenters.

A few days later, another adult female fox, that had lost her litter, was sent to the College for post-mortem examination. The carcass of this fox was in a very thin condition. The lungs were congested; one lobe showed a complete consolidation, with fairly large, white, abscessed-like areas dotted throughout its tissue. Consolidated areas appeared in the other lobes. The liver was hyperaemic. The kidneys were somewhat pale and anemic.

A bacterial examination of material taken from the abscess-like areas showed a staphylococcus infection. A microscopic examination of the tissue showed a heavy cell infiltration and congestion throughout the lung. In the kidney, there was a desquamation of the tubular epithelium. The capillaries in the glomerular tubes were congested. The spleen appeared normal. The most significant finding was pneumonia.

Three weeks later a female fox and her litter of five pups, from the same ranch, were brought to the College for examination. The female was off feed, and showed a very thin, unthrifty condition. The nose was dry, and the buccal cavity and tongue had a dry, parched appearance. Pus was discharging from the eye. Little milk was being secreted from the mammary glands. The puppies were a rather pitiful sight. They were very thin and dirty in appearance. They lacked the vigour that usually is found in well-fed and developed fox pups. A slight diarrhoeal condition was present. Their eyes were encrusted, glued together, and discharging pus.

The eyes were washed with a boracic acid solution. Abbott's intestinal antiseptic tablets were recommended for both the adult fox and the puppies. Vitamin A capsules were also prescribed for both the female and the pups. A ration containing suitable proportions of meats, cereal, vegetables, vitamins, and minerals was prescribed. It was recommended that this be fed in adequate amounts to all the foxes on the ranch. It was also recommended that the pens, kennels, and nest boxes be cleaned and disinfected. Wherever thought necessary, medical treatments were prescribed for some of the foxes on the ranch.

About a month later, a report was received from the owner of the ranch saying that the condition had cleared up. The diarrhoea had stopped, and the foxes were greatly improved in condition.

A NEW TREATMENT FOR FELINE RINGWORM

A. A. Kingscote, V.S., D.V.Sc.

Following the study of several cases of cat ringworm which had failed to respond to conventional treatments, experiments were initiated to test the efficacy of some of the newer fungicides

Successful treatments were applied to two Siamese cats, one adult and one kitten, infected with endothrix microspores. These animals had been considered incurable.

As the basic treatment, Oceancide "A" (1) was used, in the proportion of one part crystals to 360 parts water. A six gallon porcelain crock of the mixture was maintained at approximately body temperature by keeping a 100 watt electric light bulb partially submerged in the solution.

For the first week the cats were dipped daily. Thereafter, they were dipped twice weekly in the solution until the disease was cured. The animals were held in the solution for one to two minutes, dried before an electric hair dryer, and subsequently placed in warm quarters. In the adult cat, isolated lesions were treated with Mycozol (2); and in the kitten, with Phemoral (3). Both cats were completely cured in 12 weeks.

The advantage of the described treatment is its cleanliness compared with the use of greasy preparations and dyes. The time factor is the greatest objection, but the length of treatment is justified in the case of valuable breeding animals or of animals which the owners do not wish destroyed for sentimental reasons. Care must be taken to use a non-metallic vessel for the Oceancide "A", and to prevent the Mycozol and Phemoral from entering the eyes.

In addition to the treatment administered, the animals' bedding, possibly contaminated with spores, was frequently changed. Collars were used on cats, to prevent the spread of spores by tongue washing.

(1) Ocean Chemicals Limited, Toronto 6, Ont.

(2) (3) Parke, Davis and Company.

KETOSIS IN DAIRY COWS

J. A. Henderson, B.V.Sc., M.S.

Ketosis or acetonemia appears to be a problem of increasing gravity in the dairy herds of the province. During the past winter, numerous individual cases and several instances in which the condition was a herd problem were brought to the attention of the Department of Medicine at the Ontario Veterinary College.

It is obvious that the basic cause of the condition is not the same in all cases, since ketosis can occur as a complication of a variety of clinical conditions. Nevertheless, certain observations have been made during the past winter which lead us to believe that an important fraction of the chronic ketosis cases which occur in Ontario will yield to a line of treatment which has not hitherto been recommended in veterinary literature for treatment of this condition. Further work is in progress at present. The following case reports will serve to indicate the basis for this investigation.

The first herd studied was located about 100 miles from the College and within two miles of the north shore of Lake Ontario. It consisted of from 25 to 30 head of purebred Holstein milking cows, with the usual number of followers. Herd management was excellent, and a high level of milk production had been maintained for many years.

Ketosis had not been diagnosed in the herd until four years ago. While admitting that the condition might have occurred previously on rare occasions, the owner, who is a keen observer, was positive that it had never been an important problem. During the past four years, ketosis had been diagnosed in the herd with increasing frequency, and, in the past winter, the condition seriously interfered with the management of the herd.

The owner indicated that about 15 different cows had been treated since the stabling period had begun. Some individual cows had been treated as often as 10 times. The principal treatment employed was glucose, given intravenously. The response to treatment varied. As a rule, however, the symptoms of inappetence and decreased milk flow would disappear partially or completely following glucose administration—often to reappear within a few days unless the treatment was repeated.

The herd was fed mixed hay and corn silage as roughage. The hay was considered to be the best harvested on the farm for several years. The grain ration consisted of 2½ parts home-grown oats and barley, ½ part bran, and 1 part 24% dairy ration. In previous years it had been customary to feed considerable quantities of linseed meal, but none was available during the past winter. Two commercial mineral mixtures were fed alternately night and morning, with salt and bone char given in addition. Mangels were fed from time to time; and, in the course of the winter, the milking herd consumed seven barrels of beet molasses.

The writer visited this farm on March 26, 1947. At that time there were two cows in the herd which appeared to be clinically abnormal. Cow A had calved on February 12, 1947, in very good condition. She milked well for about a month, but then began to fail rapidly, both in weight and production. She was found by the attending veterinarian to be positive to the Ross test for ketonuria, and was treated with glucose intravenously on two or three occasions. On March 26, she produced 51 pounds of milk, but her owner noted that her food intake was not more than half of normal. Her eyes were sunken, and she was quite thin. She appeared depressed, but exhibited no other nervous symptoms. Her breath smelled strongly of acetone.

Cow B had calved on March 8, 1947, and had been purchased by the owner from a neighbouring breeder 12 days after calving. At the time of her purchase, she was milking about 60 pounds of milk a day. At her new home, however, her appetite was poor, and she had difficulty in maintaining a yield of 50 pounds. While she had lost some flesh, she was in considerably better condition than Cow A. Her breath smelled strongly of acetone, and her urine had shown a positive ketone test the previous day, at which time she was given a glucose injection.

The remaining cows in the herd were not, in the opinion of the owner, clinically affected at that time. Some of them were rather slow in cleaning up their feed, but all were producing at a satisfactory level. Three or four of the animals had been given glucose intravenously the previous day, just as "insurance."

In discussing the occurrence of the condition in his herd, the owner stated that herds similarly affected were quite common in the district. Moreover, he quoted his veterinarian's opinion that most of the ketosis in the area occurred within three miles of Lake Ontario. This suggested the possibility of a soil deficiency. Other investigators (1, 2, and 3) mention certain shoreline areas where cobalt deficiency is prevalent. They do not, however, mention ketosis as a symptom of cobalt deficiency. In fact, Killham states that no evidence of ketosis was observed in cobalt deficient cattle in Michigan. It was decided, nevertheless, to administer cobalt to a portion of the herd, in the hope that it might prove of some benefit.

Ten cows were selected as experimental animals. Seven cows were placed on cobalt immediately. This group included Cow A, five cows which had been affected during the winter but were not clinical cases at the time, and one cow which had remained normal all winter. The second group included Cow B and two other cows which had been affected previously, but were clinically normal at the time.

The owner agreed to refrain from treating the second group for a period of five days. The first group was placed on treatment on March 27, and the second group on April 2. The dosage used was one-half ounce daily of a solution prepared by dissolving two ounces of cobalt sulphate in an imperial gallon of water.

By April 2, there was a general improvement in the appetite of the treated group, but only in the affected Cow A was this followed by an appreciable increase in milk yield. With reference to Cow A, the owner wrote that "her appetite is much improved, her production has increased, and her general appearance is 50 per cent better." Her production figures, in pounds of milk, for the week following the beginning of the treatment were 47, 54, 59½, 59, 61½, 64, and 63. Her improved production has been maintained without additional treatment.

When the second group was placed on treatment, the result was the same in that the unaffected cows showed no marked response, while the affected

Cow B picked up almost immediately in both appetite and milk production. Cow B's production the day previous to the cobalt treatment was 54½ pounds of milk. For the first week of the treatment it was 59, 58½, 60½, 59½, 60½, 61½, and 64½ pounds of milk. It rose eventually to more than 70 pounds before the cow was turned out on grass. One of the clinically normal cows showed a drop in milk production, beginning four days after the first administration of cobalt, but recovered spontaneously within a few days.

The owner continued to administer cobalt to these cows for about three weeks, and to several other cows which had calved more recently. One of the cows had been affected with ketosis the two previous years. At the time of writing (June 1) no further cases of ketosis have occurred in the herd.

Since the encouraging response of this herd was noted, isolated cases of ketosis in dairy cows have been treated by the administration of cobalt sulphate alone. The usual procedure has been to use a solution one half as concentrated as that employed in the original herd (i.e. one ounce to a gallon of water) and to give one tablespoonful of this twice a day for three days, then reducing the dosage to once a day for a further week to two weeks. In these cases diagnosis was always confirmed by a positive urine test, in which the urine was diluted 10 times with water, and usually by a positive test on the milk.

In eight of these 12 cases treated with cobalt sulphate, the response has been excellent. The appetite has improved within a day or two, and milk production has returned to approximately normal within a week. One case showed a marked, favourable response in both appetite and production, only to relapse after about a week to her former level. This cow gradually recovered, but her recovery could not be attributed to the cobalt treatment. The other three cows have shown no distinct response to cobalt therapy.

Further details on these cases will be published later. Meanwhile, it is of interest to note that they occurred as isolated cases in widely separated areas, and, for the most part, in herds where cobalt deficiency was not known to exist as a herd problem. The mode of action of cobalt in these cases is obscure. It appears, however, that a form of cobalt deficiency in dairy cattle is much more widespread than has been realised, and that its relation to the disease syndrome known as ketosis warrants further study.

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2. Keener, H. A. *Cobalt Deficiency in Dairy Animals*, Cornell Nutrition Conference Abstracts; 1945.
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ANNUAL REPORT

OF THE

Department of Highways

ONTARIO

FOR THE FISCAL YEAR ENDING MARCH 31st
1947

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO

SESSIONAL PAPER No. 32, 1948

ONTARIO

TORONTO
Printed and Published by Baptist Johnston, Printer to the King's Most Excellent Majesty
1948

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Hon. Geo. H. Doucett, Minister of Highways, Welcomed by Mr. Duncan, President, Red Lake Chamber of Commerce, at Red Lake, Dec. 17th., Upon the Arrival at Red Lake of the First Automobiles to Travel Over the New Red Lake Road.

To The Honourable Ray Lawson, O.B.E.,
Lieutenant-Governor of the Province of Ontario.

May it Please Your Honour:—

The undersigned has the honour to transmit the Annual Report of the Department of Highways, Ontario, for the fiscal year ending March 31st, 1947.

Respectfully submitted.

Geo. H. Doucett,
Minister.

Department of Highways, Ontario.
Toronto, October 22nd, 1947.

To The Honourable Geo. H. Doucett,
Minister of Highways, Ontario.

Sir:—

I have the honour to present herewith Report on the activities of the Department of Highways for the Fiscal Year ended 31st March, 1947.

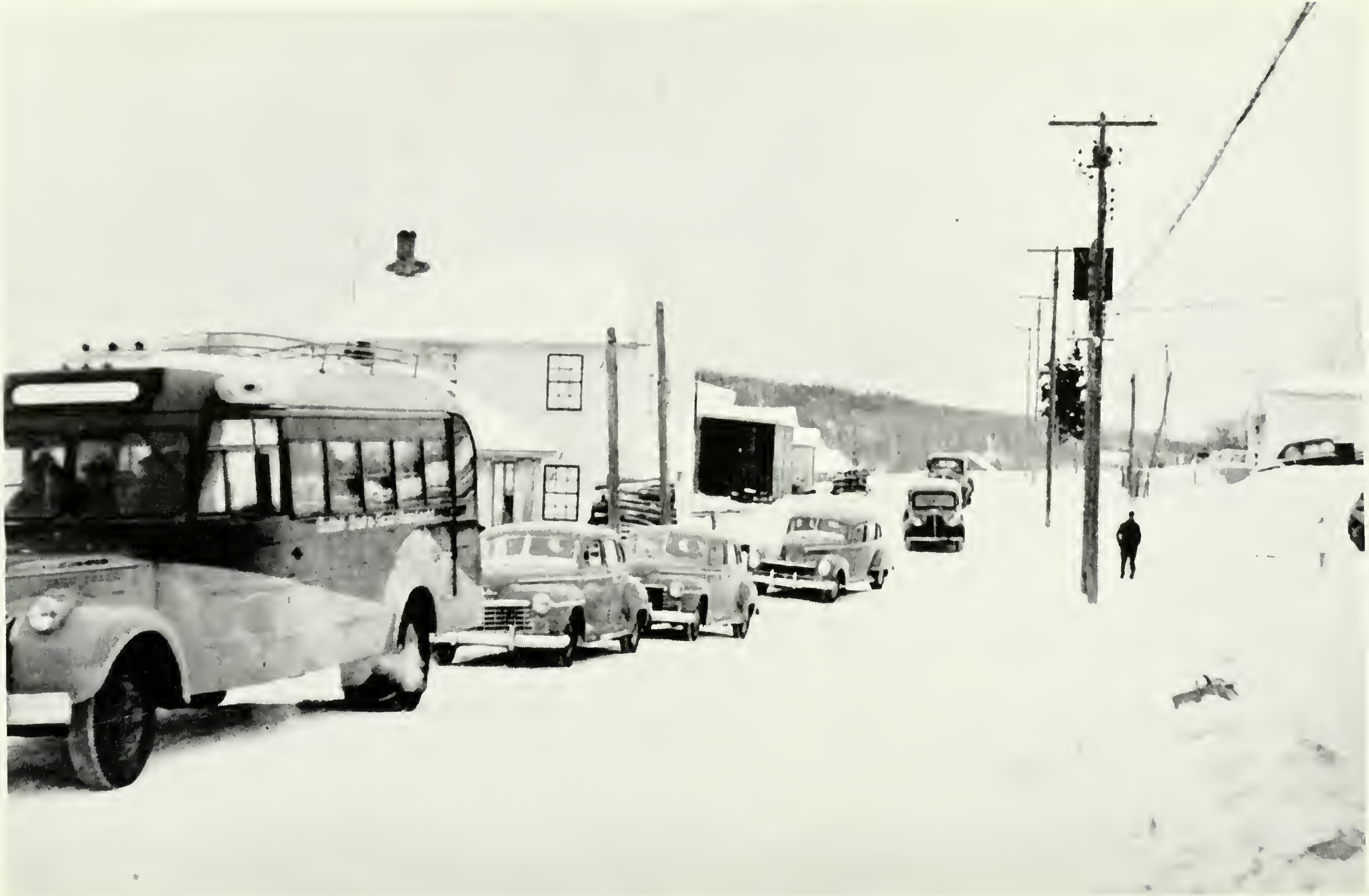
The Report covers operations and functions performed by the various branches, including King's Highways, Municipal Roads, Bridge Construction, Accounting, Gasoline Tax and Motor Vehicles.

I have the honour to be, Sir,

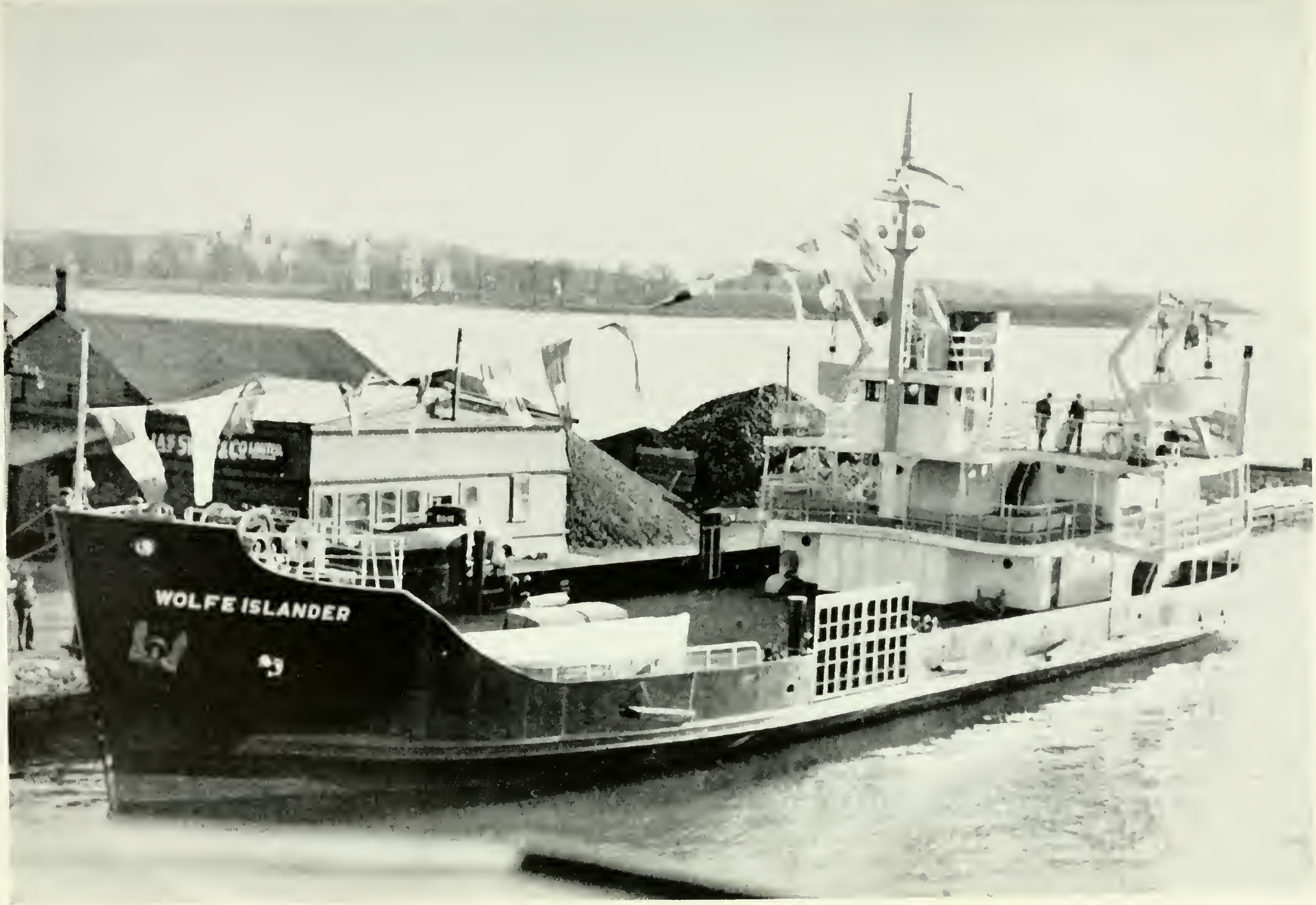
Your Obedient Servant,

J. D. Millar,
Deputy Minister.

Department of Highways, Ontario.
Toronto, October 22nd, 1947.



Motor Convoy Arriving at Red Lake, Dec. 17th.; the First Motor Traffic to Travel the Red Lake Road.

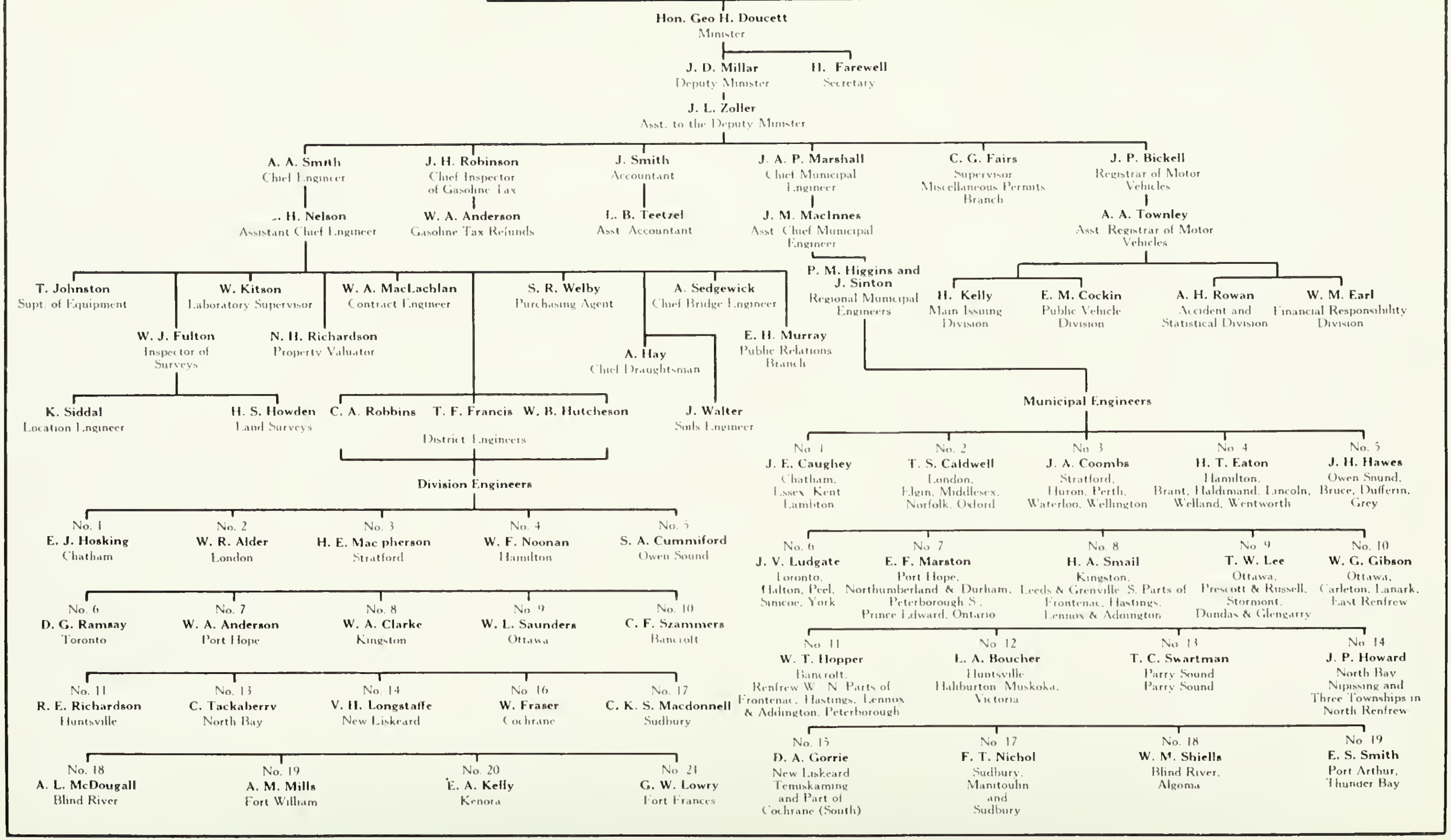

WOLFE ISLANDER

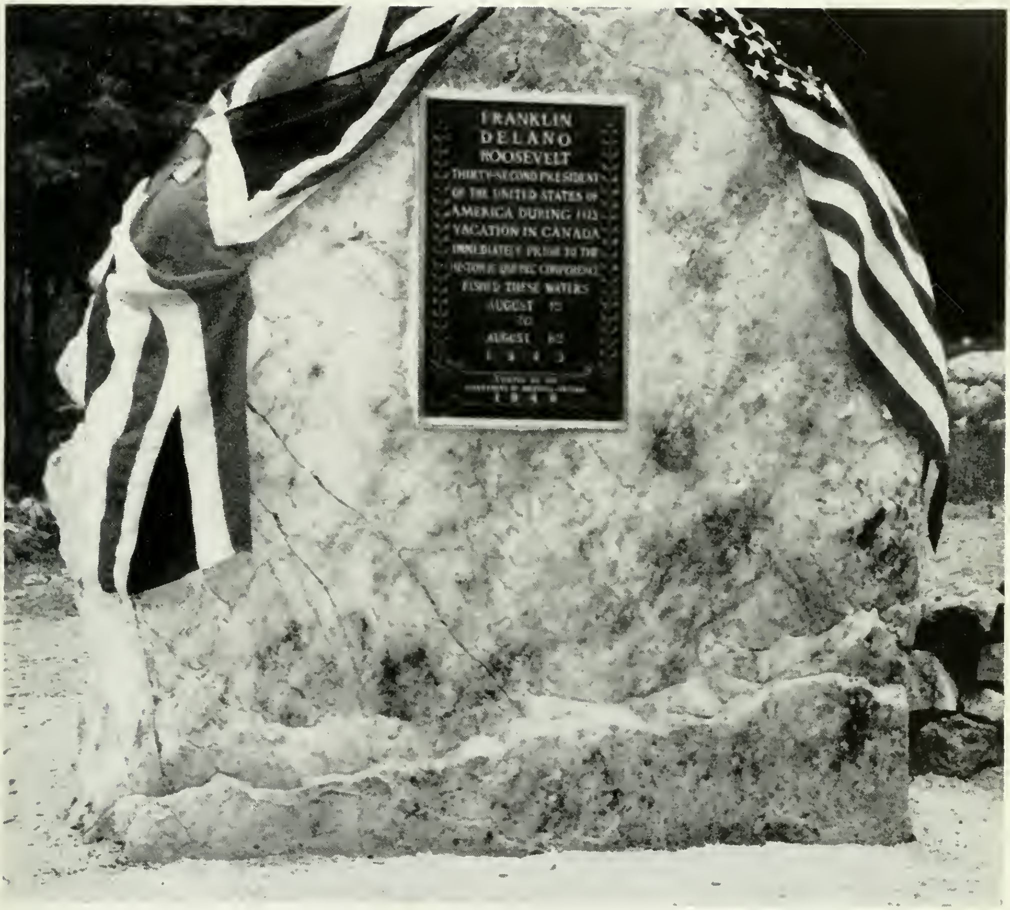
The "Wolfe Islander," New Ferry Operating Between Kingston and Wolfe Island.

1946

ORGANIZATION CHART

DEPARTMENT OF HIGHWAYS • ONTARIO


Hon. Geo H. Doucett
Minister
J. D. Millar
Deputy Minister
H. Farewell
Secretary
J. L. Zoller
Asst. to the Deputy Minister
A. A. Smith
Chief Engineer
J. H. Nelson
Assistant Chief Engineer
J. H. Robinson
Chief Inspector of Gasoline Tax
W. A. Anderson
Gasoline Tax Refunds
J. Smith
Accountant
L. B. Teetzel
Asst. Accountant
J. A. P. Marshall
Chief Municipal Engineer
J. M. MacInnes
Asst. Chief Municipal Engineer
P. M. Higgins and J. Sinton
Regional Municipal Engineers
C. G. Fairs
Supervisor Miscellaneous Permits Branch
J. P. Bickell
Registrar of Motor Vehicles
A. A. Townley
Asst. Registrar of Motor Vehicles
H. Kelly
Main Issuing Division
E. M. Cockin
Public Vehicle Division
A. H. Rowan
Accident and Statistical Division
W. M. Earl
Financial Responsibility Division
T. Johnston
Supt. of Equipment
W. Kitson
Laboratory Supervisor
W. J. Fulton
Inspector of Surveys
N. H. Richardson
Property Valuator
W. A. MacLachlan
Contract Engineer
S. R. Welby
Purchasing Agent
A. Sedgewick
Chief Bridge Engineer
A. Hay
Chief Draughtsman
E. H. Murray
Public Relations Branch
K. Siddal
Location Engineer
H. S. Howden
Land Surveys
C. A. Robbins
T. F. Francis
W. B. Hutcheson
District Engineers
J. Walter
Soils Engineer
Division Engineers
No. 1
E. J. Hosking
Chatham
No. 2
W. R. Alder
London
No. 3
H. E. Mac pherson
Stratford
No. 4
W. F. Noonan
Hamilton
No. 5
S. A. Cummiford
Owen Sound
No. 6
D. G. Ramsay
Toronto
No. 7
W. A. Anderson
Port Hope
No. 8
W. A. Clarke
Kingston
No. 9
W. L. Saunders
Ottawa
No. 10
C. F. Szammers
Bancroft
No. 11
R. E. Richardson
Huntsville
No. 13
C. Tackaberry
North Bay
No. 14
V. H. Longstaffe
New Liskeard
No. 16
W. Fraser
Cochrane
No. 17
C. K. S. Macdonnell
Sudbury
No. 18
A. L. McDougall
Blind River
No. 19
A. M. Mills
Fort William
No. 20
E. A. Kelly
Kenora
No. 21
G. W. Lowry
Fort Frances
Municipal Engineers
No. 1
J. E. Caughey
Chatham, Essex, Kent, Lambton
No. 2
T. S. Caldwell
London, Elgin, Middlesex, Norfolk, Oxford
No. 3
J. A. Coombs
Stratford, Huron, Perth, Waterloo, Wellington
No. 4
H. T. Eaton
Hamilton, Brant, Haldimand, Lincoln, Welland, Wentworth
No. 5
J. H. Hawes
Owen Sound, Bruce, Dufferin, Grey
No. 6
J. V. Ludgate
Toronto, Halton, Peel, Simcoe, York
No. 7
E. F. Marston
Port Hope, Northumberland & Durham, Peterborough S., Prince Edward, Ontario
No. 8
H. A. Smail
Kingston, Leeds & Grenville, S. Parts of Frontenac, Hastings, Lennox & Adington
No. 9
T. W. Lee
Ottawa, Prescott & Russell, Stormont, Dundas & Glengarry
No. 10
W. G. Gibson
Ottawa, Carleton, Lanark, East Renfrew
No. 11
W. T. Hopper
Bancroft, Renfrew W. N. Parts of Frontenac, Hastings, Lennox & Addington, Peterborough
No. 12
L. A. Boucher
Huntsville
Haliburton, Muskoka, Victoria
No. 13
T. C. Swartman
Parry Sound
Parry Sound
No. 14
J. P. Howard
North Bay
Nipissing and Three Townships in North Renfrew
No. 15
D. A. Gorrie
New Liskeard
Temiskaming and Part of Cochrane (South)
No. 17
F. T. Nichol
Sudbury, Manitoulin and Sudbury
No. 18
W. M. Shiells
Blind River, Algoma
No. 19
E. S. Smith
Port Arthur, Thunder Bay


FRANKLIN
DELANO
ROOSEVELT
THIRTY-SECOND PRESIDENT
OF THE UNITED STATES OF
AMERICA DURING HIS
VACATION IN CANADA
IMMEDIATELY PRIOR TO THE
HISTORIC QUEBEC CONFERENCE
FISHED THESE WATERS
AUGUST
TO
AUGUST
1943

The Roosevelt Memorial, Erected by the Department of Highways and Unveiled June 16th, Beside Highway No. 68 at McGregor Bay, where the Late President Spent a Few Days Fishing Just Previous to the Historic Quebec Conference of 1943.

HIGHWAYS OF ONTARIO

By J. D. Millar, Deputy Minister.

In the period covered by this Report for the fiscal year ending March 31, 1947, there was completed the largest highway construction programme ever undertaken by the Department. During the first full year of post-war activity every effort was made to bring road surfaces back to standard and to meet the demands of motorists and industry for expanded highway facilities. Reflecting a return to peacetime conditions, the revenue of the Department, chiefly from gasoline tax and motor license fees, reached a peak of approximately $45,000,000. For the first time in several years expenditure exceeded revenue, being approximately $45,700,000.

As will be noted in the report of the Chief Engineer, more than 168 miles of hot mix bituminous pavement was laid on newly graded roadbeds, 124 miles of road mix surface was completed on existing grades, while an additional 168 miles of bituminous surfacing was done on existing pavements. Thus a total of 460 miles of highway received an improved surface of some type of pavement. Major construction projects in southern Ontario included the grading of a new controlled-access highway from Toronto to Barrie, to relieve congestion on the present Highway 11, and paving of previously graded sections of similar type highways between Highland Creek and Oshawa and between Gananoque and Brockville, the latter being single lane only for the present time. In northern Ontario two heavy grading projects were well under way at the end of the fiscal year; the Lightning River road from Matheson easterly and the Red Lake Road north from Quibell. Of particular interest in connection with the Red Lake Road is the fact that 86 miles of new construction across very rugged country was available for traffic within nine months following the start of the first surveys.

Routine maintenance of the King's Highway system was handicapped by continuing shortages of equipment. An exceptionally bad winter, which for days at a time paralyzed both rail and highway transport in the area between Lake Huron and the Ottawa River, taxed the seriosuly depleted snow ploughing equipment to the utmost. It is a tribute to the loyalty and constant efforts of the snow plough crews and the equipment repair men that of a total of some 10,400 miles of King's Highways and Development roads, more than 9,870 miles were kept open for winter traffic. Indications at the end of the fiscal year gave promise that urgently needed machinery, on order for some years, was finally coming through.

In common with other public organizations, the Department is finding it difficult to attract and hold trained personnel. Salaries in private industry in the present peak employment are considerably above the average and it was necessary to carry out a greatly increased programme with a staff below pre-war strength. Meeting this situation, the Depatrment has set up apprentice training in several branches, particularly in the Surveys Branch where nineteen staff members are now in training as Ontario Land Surveyors. Draughtsmen and Inspector schools have also been established and many returned men are being trained for specialized work. In addition to the application of aerial photography to highway location, the Surveys Branch also undertook a complete traffic census in 1946, the first since the outbreak of war.

Indication of the increasing use of petroleum products in various forms is found in the report of the Gasoline Tax Branch. Over 105,000 claims for gasoline tax rebate were dealt with for gasoline and fuel oil used for tax-exempt purposes.

Legislation introduced at the close of the fiscal year increased the rate of tax from eight to eleven cents per Imperial gallon. This three cent increase absorbed the wartime tax removed by the Federal Government as of March 31, 1947. A portion of the increase was allotted to subsidies for road construction and maintenance in the cities, towns and villages throughout the Province not previously being assisted by the Department, effective for the calendar year 1947.

The large amount of building construction being carried out is reflected in the report of the Miscellaneous Permits Branch which shows that permits in excess of 3,400 for buildings valued at $14,500,000. were issued on properties fronting on the King's Highways.

The report of the Municipal Roads Branch shows that subsidies in aid of County and Township road expenditures totalled approximately $8,900,000. as compared with $7,080,000. in the previous year and $3,590,000. in 1942. On County roads some 246 miles of paved surface was laid. It is interesting to note that of 8,710 miles of County roads, nearly 8,200 miles were kept open for winter traffic.

During the year a comprehensive survey of all bridges on municipal roads was undertaken and the reports indicate that more than 16,000 bridges require replacement or major improvements. Shortage of essential materials is a serious problem at the present time but in the interest of public safety a substantial number of these bridges must have attention in the near future. Encouraging the municipalities in this respect, amendments to the Highway Improvement Act provided an increase of subsidy from 75 to 80 percent and extended the provisions under which bridge subsidy would apply.

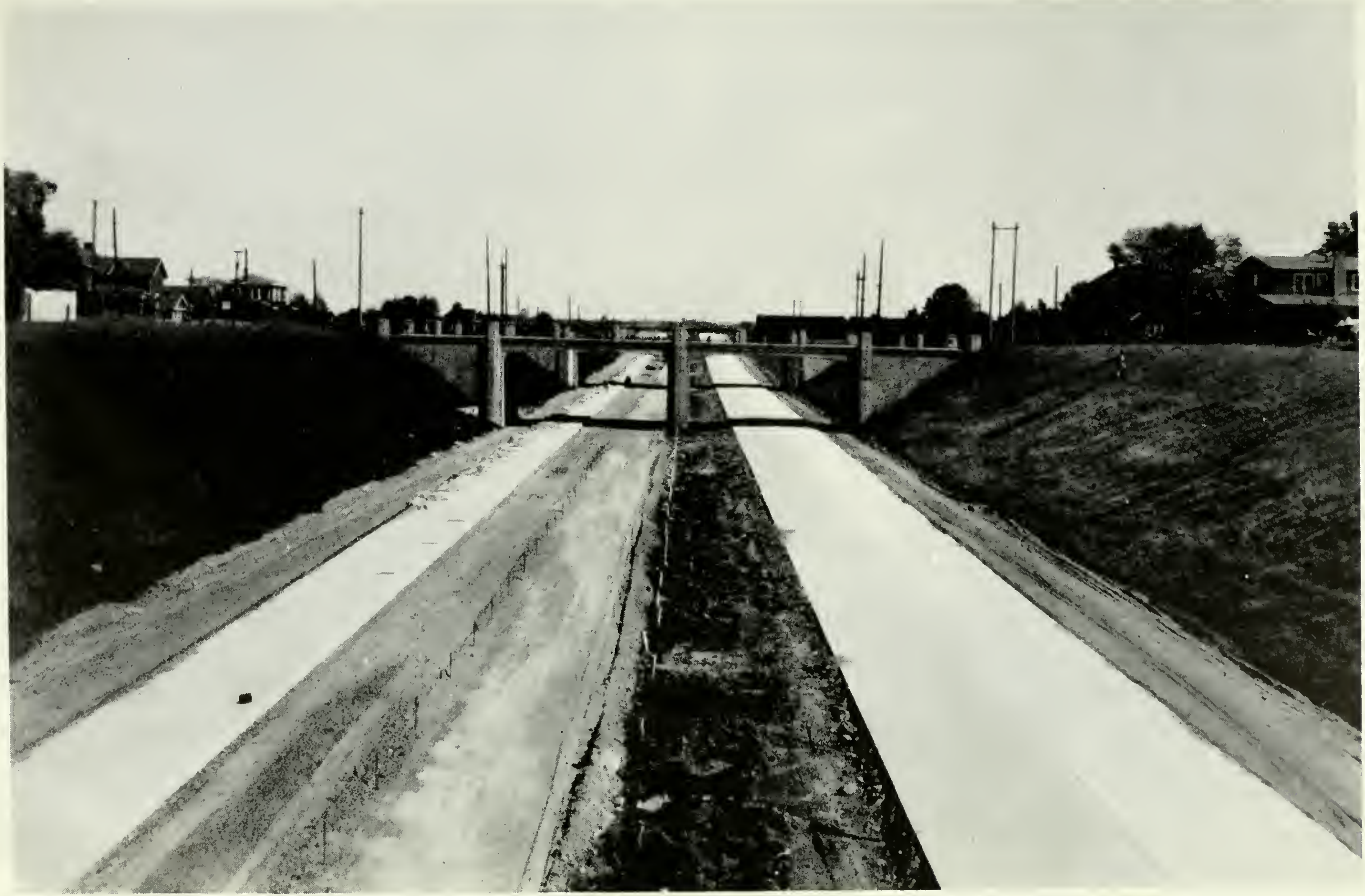
Further amendments to the Act made possible direct Department assistance for Development Roads in areas where local municipalities were unable to finance even a small percentage of the cost of main roads having relatively heavy traffic. A total of 95 miles of Development Roads were designated during the year and an expenditure of $153,000. made under agreements with the municipalities.

The Report of the Motor Vehicles Branch shows a substantial increase in revenue over the previous year; $13,226,000. as compared with $9,775,000. Registration of vehicles was 711,106, an increase over 1945 and within 3.8 percent of the all-time peak of 739,194 for 1941. Drivers' permits for the first time passed the one million mark with 1,087,445 being issued. As has been the case for some years, truck registrations, both in number and tonnage, increased.

Fatalities in highway accidents recorded during the year total 688 as compared with 598 in 1945. In a determined effort to reduce these tragic statistics the Department is working in close co-operation with various safety organizations throughout the Province. Through the press and radio, in schools and public gatherings, an appeal is being made to motorists to exercise care, courtesy and common sense. Amendments to the Highway Traffic Act introduced during the 1947 session of the Legislature provide stiffer penalties for infractions and the action of the courts in suspending 6586 licenses during 1946 as compared with 4191 in 1945 is a warning to the irresponsible driver who will not exercise due caution.

Further amendments to the Act, to become effective during 1947, provide for the establishment of an "Unsatisfied Judgment Fund" for the protection of motorists involved in accidents with uninsured drivers. Special provisions of this amendment, particularly in respect to victims in hit-and-run cases, make it unique on the North American continent in the field of advanced motor vehicle legislation.

Graded Section of Toronto-Barrie Controlled Access Highway.



The Toronto-Oshawa Controlled Access Highway at Oshawa.

REPORT OF THE HIGHWAYS ACCOUNTANT

By John Smith, Chief Accountant

To J. D. MILLAR, ESQ.,
Deputy Minister of Highways

The following is a summary of the Receipts and Disbursements of the Department of Highways for the fiscal year, April 1st, 1946, to March 31st, 1947:

RECEIPTS

Gasoline Tax Branch	$31,265,764.59
Motor Vehicles Branch	13,225,686.88
Permits: Garages, Signs, etc.	138,796.00
Miscellaneous	336,766.64
	$44,967,014.11

DISBURSEMENTS

King's Highways, Development Roads, etc.	$34,522,967.89
Roads in Unincorporated Townships, etc.	391,852.92
	$34,914,820.81
Subsidies in aid of County Roads	$ 3,769,755.43
Subsidies in aid of Township Roads and Indian Reserves	5,128,044.58
Administration, etc.	1,945,862.08
	$45,758,482.90

REPORT OF GASOLINE TAX REVENUE

By J. H. Robinson, Chief Inspector, Gasoline Tax

To J. D. MILLAR, ESQ.,
Deputy Minister of Highways

The following data for the fiscal year 1946-47, relative to the Gasoline Tax Branch, is respectfully submitted:

GROSS REVENUE

Receipts from Vendors under Agreement	$35,641,593.78	
Receipts from Importers	137,719.27	
Receipts re. Fuel Oil Consumption	200,377.86	
Receipts re. Miscellaneous Items	15,302.55	
Tax recovered re. Bab Debt Deductions	571.14	
		$35,995,564.60

Refunds

Airplanes	315 Claims	$ 196,590.35	
American	534 "	36,589.59	
Cities and Towns	298 "	19,338.16	
Cleaning	993 "	125,536.16	
Contracting	1,107 "	233,372.33	
Farming	87,565 "	2,498,677.99	
Federal Government	104 "	27,708.98	
Lumbering	1,041 "	205,090.67	
Manufacturing	2,322 "	878,632.41	
Miscellaneous	6 "	1,367.64	
Motor Boats	4,176 "	161,458.68	
Municipal Trucks	246 "	100,983.49	
Railways	111 "	63,871.36	
Stationary Engines	6,412 "	185,969.36	
	105,230		$ 4,735,187.17

Net Revenue from Gasoline Tax $31,260,377.43

Gasoline Handling Licenses

Agents	$ 50.00	
Importers	52.00	
Mixers	156.00	
Refiners	6.00	
Transporters	1,945.07	
Wholesalers	3,178.09	
		$ 5,387.16

Total Net Revenue $31,265,764.59

The gross revenue increased 26.2% over the fiscal year 1945-46, and refunds increased 8.7%, which resulted in a net revenue increase of 29.3%. Paid refund claims represented 13.2% of the gross tax. The tax exemption system, which was in effect for part of the previous fiscal year, together with refunds, represented 16.2% of the gross tax. The auditing of refund claims before payment resulted in $97,773.64, or 2% of the value of total refunds disallowed.

An Amendment to the Highway Improvement Act was passed during the 1947 Legislature, whereby cities, towns and villages may be subsidized for road expenditures. Therefore, as of January 1, 1947, the policy of paying refund claims to municipalities on gasoline consumed in municipally-owned commercial vehicles, and for the maintenance and construction of roadways, was discontinued.

An Amendment to the Gasoline Tax Act was passed during the 1947 Legislature, whereby the gasoline tax was increased to 11c per gallon as of April 1, 1947.

REPORT OF THE MISCELLANEOUS PERMITS BRANCH

By C. G. Fairs, Supervisor

To J. D. Millar, Esq.,
Deputy Minister of Highways

I have the pleasure to submit the following 1946-47 Fiscal Year Report:

Building Permits

Number of Permits Issued	3,430
Value of Buildings	$14,584,077.00

Public Garage Licenses

Licenses Issued—Class "A"	4,739
Business Transfers—Class "A"	107
Licenses Issued—Class "B"	3,676
Business Transfers—Class "B"	75
Total Receipts	$ 71,560.00

Gasoline Pumps—King's Highway Outlets Only

Licenses $25.00 (Curb)	474
Licenses 5.00 (8 ft. to 25 ft. from Highway Boundary)	3,081
Total Receipts	$ 46,775.00

Signs

Licenses $10.00	463
Licenses 5.00	1,889
Licenses 1.00	552
Total Receipts	$ 20,461.00

License fees received, as indicated above, will coincide with the Treasury Department Receipts for the Fiscal Year 1946-47.

Garage, Gasoline Pump and Sign Licenses are the issue as of the Calendar Year, January 1st to December 31st, 1946.

Reading Recordings on Traffic Census Meter.

Earth-Moving Equipment Grading Toronto-Barrie Highway.

Toronto-Barrie Highway Under Construction at Holland Marsh.

Excavating Muskeg at the Holland Marsh, Toronto-Barrie Highway.

Fill Across Holland Marsh, Toronto-Barrie Highway, Excavated Muskeg Along Shoulders.

Annual Report for 1946

KINGS HIGHWAYS OPERATIONS

A. A. Smith, Chief Engineer

Operations on the King's Highways and secondary roads were carried on under the handicap of post-war conditions. Labour was in short supply and somewhat unreliable. Equipment, much of which had seen service during the war years, was wearing out and almost non-replaceable. Parts for equipment were difficult to obtain and materials, especially steel products and cement, were in short supply. These shortages curtailed considerably the concrete culvert and bridge construction throughout the Province.

Maintenance operations were hampered by labour shortage and by the general conditions of the times. The winter of 1946-47 was unusually severe. Snowplowing was extensively carried out in all the Divisions and a total of 9,872.1 miles of road were snowplowed.

The work of the major branches of the Department was effectively carried on as set forth under their respective reports, namely:—The Testing Laboratories, Highway Traffic Signals, Surveys, Highway Bridges and the Equipment Branch.

CONSTRUCTION PROJECTS

Grading:—Quite a number of sections of highways were regraded to improved standards, drainage improved, and granular material placed to depths required to support future pavements. Two major grading projects were commenced. One of these was the Red Lake Road, beginning at the Canadian National Railway three miles east of Quibell on the Kenora Division and ending at the Settlement of Red Lake, a distance of 99 miles, of which 85.7 miles was entirely new construction and the remaining 13.3 miles of a lumber road was revised in places and regraded, and the whole brought to standard. While the Red Lake Road was not entirely completed, sufficient work was done to provide for safe and easy traffic into Red Lake throughout the winter months. The other major grading project was the new 4-lane divided, controlled access, highway between Toronto and Barrie. About 70 per cent of the grading was completed and some granular material placed thereon.

In addition to the aforementioned major grading projects, other important grading work was done as follows:

Highway No.	
3	Grading on a relocation at the western approach to Simcoe was completed.
4	Grading was done on 7 miles between Teeswater and Highway No. 9.
6	From Wiarton south for 7.6 miles.
7	5.5 miles easterly commencing at a point 7 miles east of Peterborough.
12	8.34 miles between Beaverton and Brechin.
12	1.5 miles between Coldwater and Waubaushene.
15	Between Perth and Innisville—3 miles.
17	On two diversions between Alfred and L'Original.
17	3.5 miles west of Verner on a relocation.
	County Road No. 20 from Fenelon Falls Cut-off for 2.7 miles.
	County Road No. 13 for 4.5 miles.
	McNab Township Development Road between Highway 17 and

Highway No.	
	Burnstown.
	Several unfinished sections were completed on the Secondary Road between Kinmount and Gooderham.
	Work was commenced on 2.5 miles on a new road between the Muskrat River and the west arm of Lake Nipissing.
	Grading of a new mining road east of Matheson was commenced involving the regrading of 10 miles of old road and 13 miles of new construction.
	In the Fort Frances area, grading was done on Secondary Road No. 202 for 6.25 miles.
21	Grading was done on 10 miles between Amberley and Kincardine.
23	From Russelldale to Mitchell.
24	From Collingwood south for 5 miles.
29	Between Smiths Falls and Franktown—8 miles.
37	A diversion of 3,500 feet at Moira River.
38	The partial completion of the widening and raising of the causeway of Sharbot Lake.
41	From Picton north for 4 miles.
48	For 6.1 miles.
50	5.21 miles from the Junction of Highway 7 to Highway 49.
59	Between Woodstock and Delhi, and 13.7 miles were completed except for shouldering.
62	From Madoc north 3 miles.
86	From Bluevale to Wingham.
87	2 Miles east of Bluevale.

In addition to the foregoing list, quite a number of minor grading jobs were carried out as set forth under the appended reports of the Divisions.

PAVEMENT CONSTRUCTION

Work done during the year included the widening of Highway No. 11 from a width of 20 feet to 30 feet between Steele's Corners and Richmond Hill, on a stretch of 2.7 miles, and consisted of a concrete base with a bituminous surface.

On the four-lane divided highway between Highland Creek and Oshawa 12.72 miles of 9-inch concrete pavement, 22 feet wide, was laid, together with granular base and the addition to storm sewers; and the general improvement of the drainage where necessary.

Granular base courses were placed under all pavements as required and, where necessary, drainage was improved or added to.

The detailed locations of Bituminous and other pavements laid are appended below, but it can be mentioned here that Hot Mixed Bituminous pavement was laid on 168.75 miles of regraded and gravelled surfaced roads, while Bituminous Road Mix pavement was placed on 124.57 miles of roads including secondary roads as well as King's Highways.

RESURFACING OF PAVEMENTS

Bituminous resurfacing was done on old pavements totalling 168.4 miles. This work was done to repair the effects of traffic on pavements over the wartime years and to provide better riding qualities as well as to preserve the original pavement as an adequate foundation for future use.

Bituminous surface treatment was given to old pavements not yet requiring resurfacing for a total of 680.46 miles.

While the application of Bituminous Prime to gravelled surfaces cannot be rightfully considered as pavement, excellent results have been obtained in the mitigation of the dust nuisances, and the preservation of the riding qualities of the gravel surface, and in many cases it will provide a foundation for future pavement work. Bituminous prime coats were placed on a total of 1,673.93 miles of gravel surfaces during the year.

Bituminous Road Mix Mulch Surface

Highway No.	Location	Miles Laid
17	Diversion near Chalk River	0.8
17	Between Hagar and Markstay	1.5
17	Sault Ste. Marie, north	6.6
28	From Bewdley, north	2.0
35	From Fenelon Falls, north	2.0
36	Between Lindsay and Bobcaygeon (intermittent)	4.0
41	From Cloyne, south	7.0
43	From Hwy. No. 31 to the Chesterville Railway Crossing	6.02
60	Between Wilno and Barry's Bay	5.0
60	Through Madawaska	0.75
60	Westerly of a point 2 miles west of Madawaska	7.0
62	Five miles east of Maynooth to Combermere	18.0
63	Feronia north	10.0
67	Between Porquis Junction and Iroquois Falls	6.0
68	Little Current, north	1.8
69	Hayes Corners, northerly	7.5
70	At Nestor Falls	1.0
71	Town of Rainy River and easterly	2.5
County Road No. 20.	Division No. 7	2.7
County Road No. 13.		1.5
Secondary Road No. 208	Division No. 21	2.0
	Villages of the Districts of Parry Sound and Muskoka	10.0
Secondary Roads	Division No. 13, Petawawa and the Ottawa River	1.9
Secondary Roads	Division No. 16, from Highway 11 to Geraldton	4.0
	Manitoulin Island Roads	7.7
Secondary Roads	Division 17	5.3
	Total	124.57

Concrete Pavements

Highway No.	Location	Miles Laid
New Kingston Rd.	Highland Creek to Oshawa New divided Highway on 22′ lanes	12.72

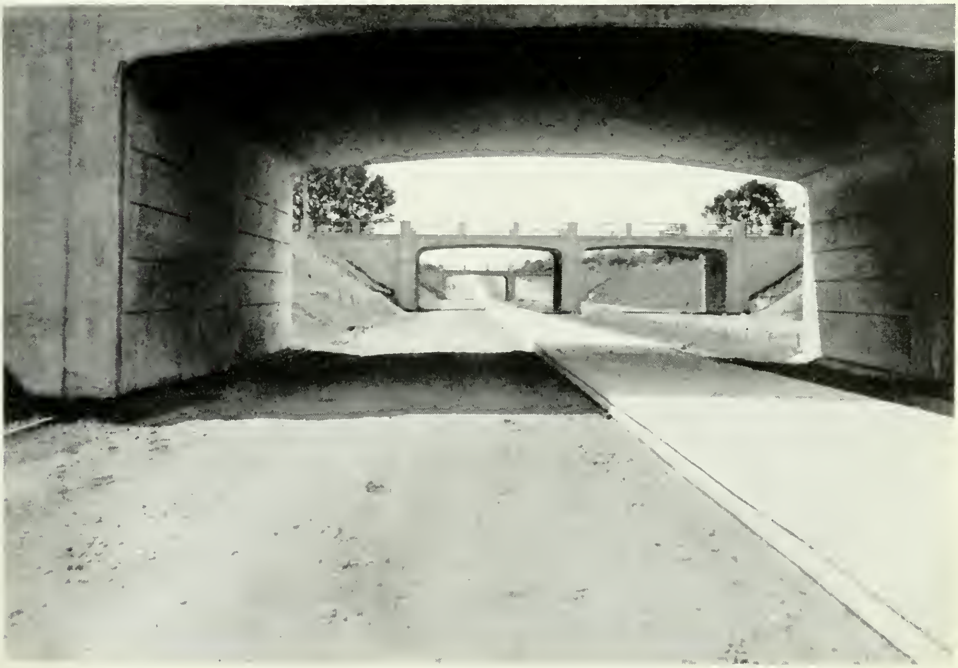
Concrete Base with Bituminous Surface

11	Between Steele's Corners and Richmond Hill widening from 20′ to 30′	2.7

Bituminous Hot Mix Pavements

4	Between Wingham and Teeswater	8.0
4	Teeswater to Highway No. 9	7.0
6	Wiarton southerly	7.6
7	From Junction of Hwys. 7 and 82 to Wisebeach	9.06
7	From 7 miles east of Peterborough, easterly	2.5
11	Latchford south	17.0
12	Beaverton to Brechin	8.24
21	Port Albert to Amberley	10.0
21	Amberley to Kincardine	10.0
23	Between Russelldale and Mitchell	6.0
24	Collingwood south to the railway crossing	5.0
27	Through the villages of Cookstown and Thornton	1.94
29	Between Smiths Falls and Franktown	8.0

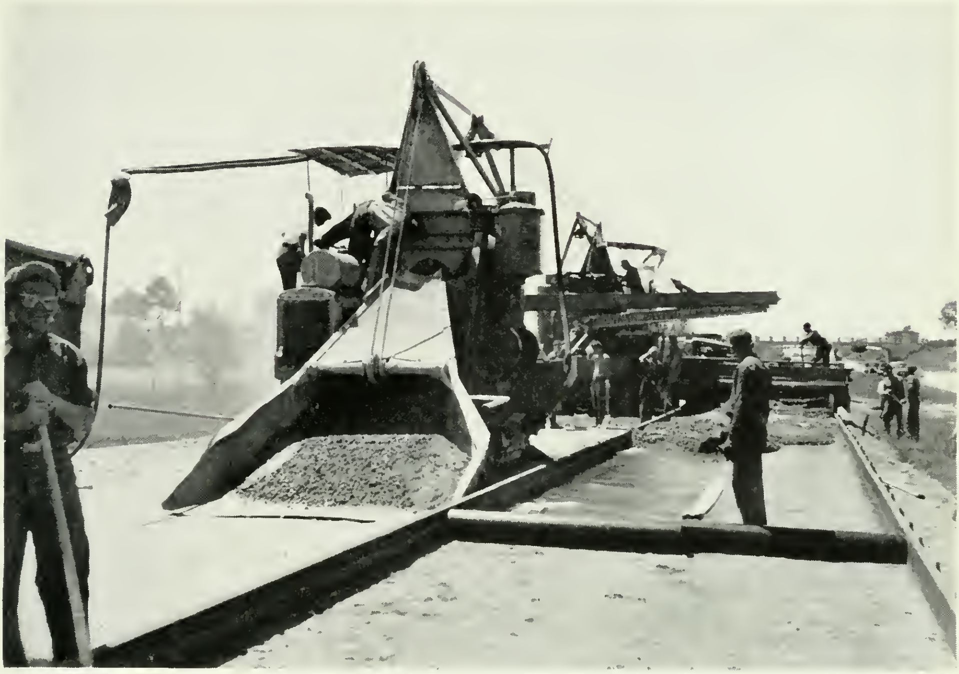
Three, of Four Lanes, Paved on Toronto-Oshawa Highway, Just West of Oshawa.



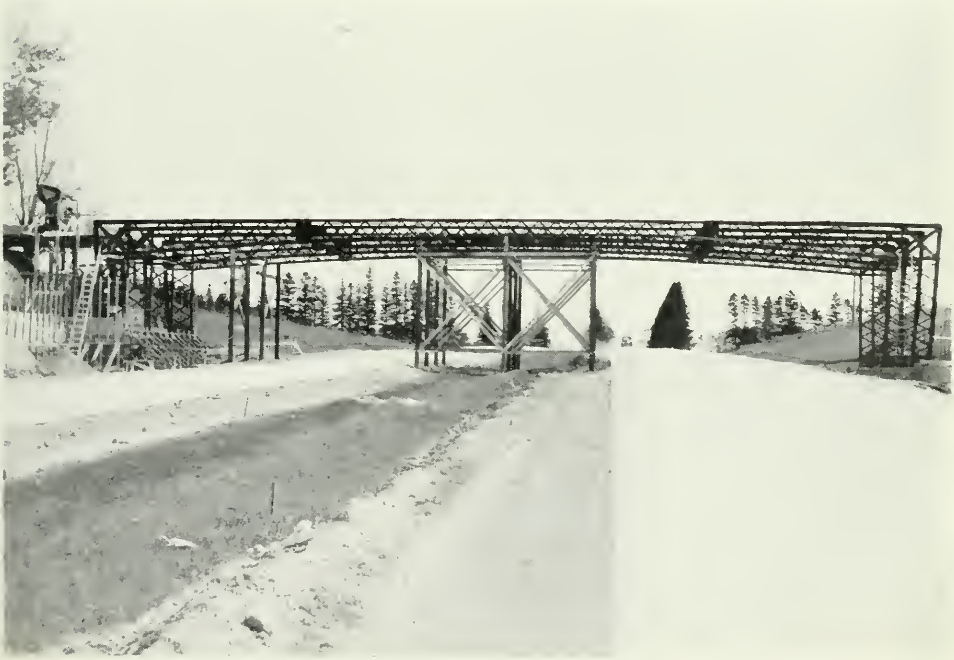
Overpasses at Oshawa, Toronto-Oshawa Highway.

Paving Operations, Toronto-Oshawa Highway.

Finishing Machine in Operation, Toronto-Oshawa Highway.



Dual Paving Machines on Toronto-Oshawa Highway.



Thickson Bridge, at Grade Separation, Toronto-Oshawa Highway.

Bituminous Hot Mix Pavements (cont'd.)

30	From Brighton to Warkworth side road	13.0
38	From Hwy. No. 7 to Tichbourne	10.4
41	From Picton, north	1.5
48	For its entire length	6.1
50	Highway No. 7 to Highway No. 49	5.21
59	Village of Norwich southerly	5.6
86	Bluevale to Wingham	3.0
87	Bluevale, easterly	2.0
98	Between Charing Cross and Merlin	9.6
Divided Highway	Between Gananoque and Rockport	12.0
	Total	168.75

Bituminous Resurfacing of Old Pavements

Highway No.	Location	Miles Laid
2	Between Windsor and Michigan Central Rlwy.	1.50
2	Between Glen Walker and Westley Creek (Intermittent)	12.0
2	Between Johnstown and Morrisburg (Intermittent)	18.5
2	Easterly from Limits of the City of London	9.5
2	Princeton, easterly	4.1
2	Shannonville, easterly	7.7
2	Crystal Beach to Mallorytown	5.5
3	Between a point 1 mile east of Essex to Oldcastle	6.8
5	From Erindale to Trafalgar	5.04
7	East and West of St. Mary's	12.0
11	Between Burk's Falls and Sundridge	1.0
11	Between Emsdale and Burk's Falls	1.5
11	Between Huntsville and Emsdale	1.0
11	Between Fennel's Corners and Stroud	3.25
11	Between Severn and Gravenhurst	0.5
11	Between Gravenhurst and Bracebridge	0.9
11	Between Bracebridge and Huntsville	1.6
11	Between Callander and Trout Creek	7.6
11	Between Aidie Creek and Boston Creek	10.0
15	Between Halexdean and Stittsville	3.67
16	Between Jock River and Ottawa	10.0
17	Between Clarence and Wendover	5.68
17	West Limits of Ottawa to Rifle Range Road	7.81
17	Between Loon Lake and Ouimet	16.0
35	At Dorset	0.25
60	At the Junction with Highway No. 35	0.5
69	Between Gravenhurst and Bala	3.25
Q.E.W.	South Lanes easterly from the CNR crossing at Freeman	6.8
Q.E.W.	North Lanes from Highway No. 25 easterly	0.35
Q.E.W.	North Lanes Vicinity of Bronte bridge	0.45
Secondary Roads	Division No. 11	2.75
	Total	168.40

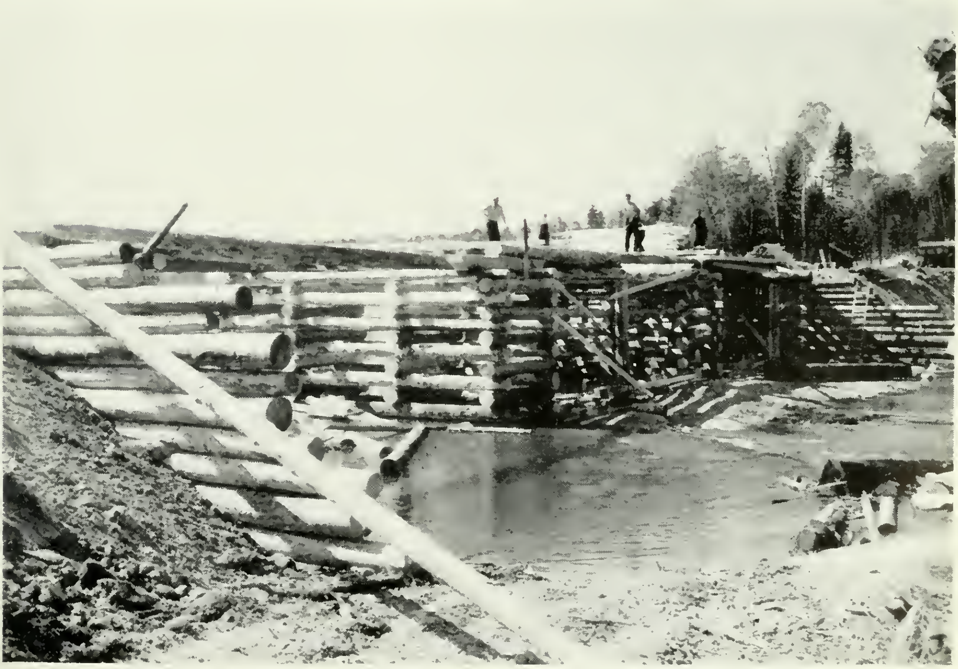
Cut on Des Joachims Revision, Highway No. 17.

Cutting Into Sidehill, Des Joachims Revision, Highway No. 17.

Equipment and Supplies Transported to Job by Barge, Red Lake Road.

Contractor's Camp, Red Lake Road.

Cleared Right of Way, Red Lake Road.



Bridges on Red Lake Road Constructed of Native Timber.

EQUIPMENT BRANCH

The usual minor maintenance work was carried out on equipment, but in addition there were 325 Major jobs performed, such as: reconditioning of front axles and steering, transmission, rear axles, etc., 85 Engines were completely overhauled and the following equipment was constructed: 3 Highway Striping Machines, 1 Double Drum Hoist, 2 Transfer Pumps, 1 Engine Running-In Stand, 25 Full Hydraulic Assemblies for Snow Plows and Wings, 3 Oil Distributors, 1 Arc Welder, 18 Road Sanders, 6 10-foot Plow Wings and 18 12-foot Plow Wings. The assembly of 3 Snow Blowers, 1 Wrecking Crane and 1 Compressor was performed. 30 Snow Plows and 30 Wings were reconditioned, and 6 Truck Chassis were replaced.

An addition to the above, any new equipment received was serviced, painted, lettered, numbered, lights fitted where necessary, and passed on to their destinations on the various Divisions.

TESTING LABORATORIES

Soils Branch

The personnel of the branch was considerably augmented and a very gratifying advance was made in soil investigation over that of the previous year. Late in the season the Soils Laboratory was moved from its temporary location near Maple, to one of the DeHavilland Airport buildings on Sheppard Ave., where adequate space is now provided. New equipment was added to that in prior use.

During the year a total of 1,470 soil and granular base samples were tested in the Laboratory, while many hundred tests were made in the field to check compaction in the work and for suitability of material.

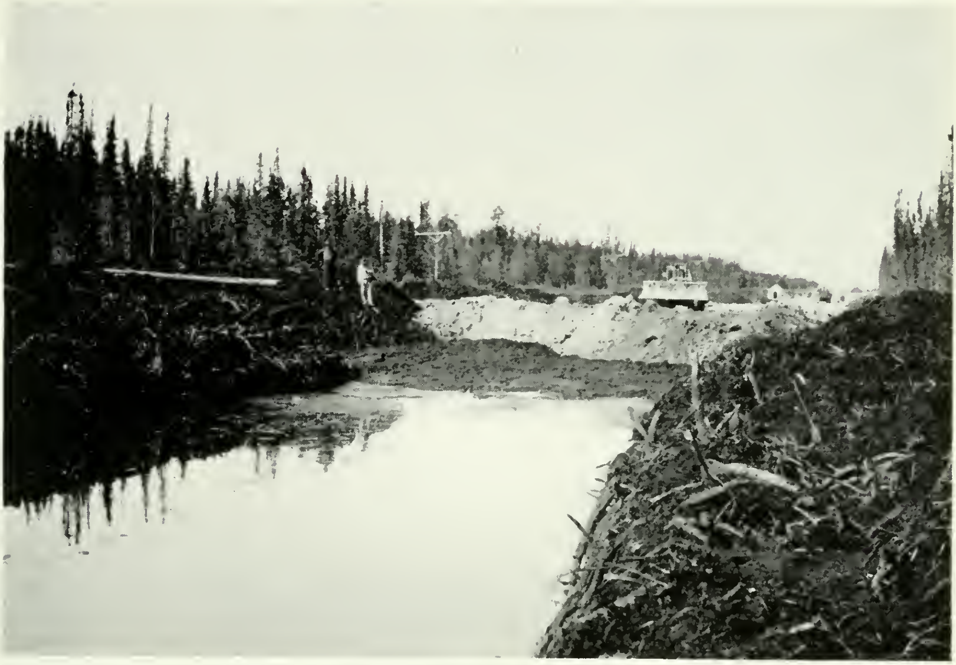
Prior to the construction of projects for the year, reconnaissance and detailed soil surveys were completed as follows: In the Chatham Division on 18.05 miles on Highways No. 7 and No. 89; in the London Division on 24.34 miles on Highway No. 59; in the Stratford Division on 37.52 miles on Highways No. 4, 21, 23, 86 and 87; in the Toronto Division on 13.05 miles on Highways No. 5 and 50, and on 5.34 miles of the Toronto to Barrie controlled access Highway; in the Port Hope Division on 36.42 miles on Highways No. 7, 30, 35 and the proposed extension of the controlled access highway east of Oshawa; in the Kingston Division for 17.94 miles on Highway No. 29, and on the Scenic Highway between Gananoque and Brockville; in the Ottawa Division on 9.29 miles on Highways No. 17 and 31, and in the Huntsville Division on 21.28 miles on Highway No. 11, totalling 183.23 miles of projects.

During the construction season, periodic and detailed assistance involving the checking of Compaction of the fills, suitability of materials, and consequent recommendations to the Divisional Staffs, was given on 167.5 miles of construction on the London, Stratford, Toronto, Port Hope and Kingston Divisions.

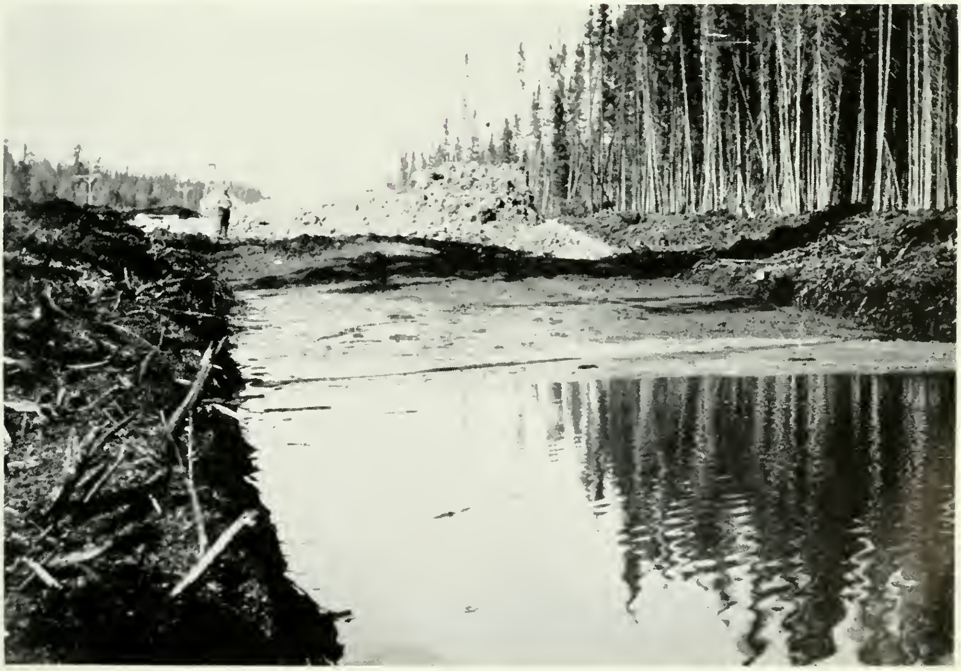
Owing to only having available 6 field parties such work necessarily had to be confined to areas in which grading construction was expected to be followed by pavement in the near future.

Asphalt and Concrete Laboratory

During the year a total of 2,364 asphalt and extraction tests were made, 923 compression tests on concrete cylinders, 45 flexural tests on concrete beams, and 354 tests on Portland Cement. 126 tests were made on culvert pipes and some suitability tests for water for use in concrete. 268 tests were made on samples of aggregates.



Building Fill Across Muskeg Section, Red Lake Road.



Close-up of Muskeg Section With New Fill in Background, Red Lake Road.

Cut on Highway No. 29, North of Smith's Falls.

Laying Hot Mix Pavement, Highway No. 29, Between Smith's Falls and Carleton Place.

Rolling Hot Mix Pavement, Highway No. 29, Between Smith's Falls and Carleton Place.

Hot Mix Pavement, Highway No. 29, South of Carleton Place.

The design and control of mixtures for both Portland Cement Concrete and Asphaltic mixtures was done by the laboratory staff and field men. Field laboratories were supplied on all work on which required.

HIGHWAY TRAFFIC SIGNALS
Traffic Lights and Flashers

The number of traffic signals in operation was reduced from 41 to 37, due to four signals being removed at entrances to various wartime training establishments being closed. To the number of flashing signals previously in operation were added two new installations, bringing the total to 80. Early in April, 1946, a temporary traffic signal was installed at the Tansley Bridge to control one-way traffic at this point. Two traffic signals were changed from magnetic control to pressure detector to give more efficient results. New flashing signals with a 200-watt floodlight base were installed at two locations as a test and proved very efficient in that it gave as well as a warning a greater illumination of the traffic hazard. Construction was curtailed in general due to the shortage of materials.

Primed Surface, Highway No. 11, South of Beardmore.

SURVEYS BRANCH

Land Surveys

During the year 569 land plans were completed, 356 from field surveys and 213 from office information. These plans comprise 282 miles of right-of-way amounting to 4,913 acres and affecting 1,357 owners.

Following the programme of training, during the fiscal year 28 draftsmen completed the course of instruction. The Surveys Branch now has a total of 19 apprentice Ontario Land Surveyors all of whom will likely become qualified surveyors by 1949. Several of these more advanced apprentices were made chiefs of parties during the year working under the direction of district land surveyors, and this enabled the Surveys Branch to operate 17 land survey parties during the summer.

Location Surveys

Location surveys were made of 473 miles of existing King's Highways and 405 miles of proposed new highways or revisions of existing ones, together with profiles and cross sections where necessary. Field work was completed and plans prepared for three bridge sites, twenty-four proposed grade separations at existing level railway crossings, and fifteen other miscellaneous surveys.

Engineering Work

Engineering work was completed for the new highway to Red Lake as well as for numerous other smaller jobs. This work consisted of preparing in detail, plans, profiles, etc. for the complete construction of highways prior to contracts being called. The setting of grades and the estimating of quantities and costs were completed for 190 miles of proposed new highways. Study plans were prepared of 3,667 square miles consisting of 3,503 square miles compiled at a scale of 1000 feet to 1 inch, and 164 miles at a scale of 400 feet to 1 inch. These plans were prepared from aerial photographs. Highway routes were selected and marked on the plans and photographs which were used by field parties when running the proposed road locations.

Traffic Census

A complete traffic census was taken on all the King's Highways in the Province during the past year, which entailed the recording of traffic at 1300 different locations in Southern Ontario and 450 in the Northern section.

With this information traffic flow plans were prepared showing the volume of traffic using all of the King's Highways and some secondary roads in Northern Ontario. During the months of July and August classification counts were taken, classifying the traffic in regard to foreign vehicles, passenger cars, trucks, buses, horse-drawn vehicles, etc. In addition, special studies were made at twenty intersections on the Highway system and directional traffic flow plans were prepared. A special study of all Highways, County and Township Roads was made of the Toronto area. The installation of permanent automatic recording base stations was delayed, due to the lack of equipment being manufactured. As a substitute portable automatic recording counters were used as a basis for determining the factors to be used to adjust the actual counts taken.

Mulch Surface, Highway No. 63, North of Feronia.

Resurfaced Highway No. 7, East of St. Mary's, Showing Staggered Centre Joint.

DIVISION NO. 1 — CHATHAM

Hot mix bituminous pavement was placed on Highway No. 7 from the junction of Highways No. 7 and 82 to Wisebeach, a distance of 9.06 miles, and on Highway No. 98 for a distance of 9.6 miles between Charing Cross and Merlin. The widening of shoulders and construction of culverts was also carried out on these sections, while on that section of Highway No. 98 the widening of the right-of-way necessitated the construction of 16 miles of right-of-way fence.

Bituminous resurfacing and patching including the widening of shoulders was carried out on Highway No. 2 for a distance of 1.5 miles between Windsor and the Michigan Central Railway, and on Highway No. 3 between a point 1 mile east of Essex to Oldcastle, a distance of 6.8 miles, totalling 8.3 miles.

Bituminous surface treatment was given to pavements on Highways No. 2 for 11.7 miles, on No. 3 for 23.9 miles, on No. 7 for 7.0 miles, on No. 21 for 22.4 miles and on Highway No. 78 a distance of 11.0 miles, totalling 76 miles in all.

Bituminous prime was placed on gravel surfaces on Highways No. 7, 18A, 97 and 98, totalling a distance of 82.15 miles. Shouldering and culverts remaining uncompleted from last season on Highway No. 82 from Parkhill to Hank's Corners, were completed this year.

On Pelee Island some 4,000 tons of crushed stone and 1,500 tons of rip-rapping were placed. Bridge painting was carried on 6 bridges on Highway No. 40, 2 bridges on No. 21, 2 on No. 7, 1 on No. 79, 1 on No. 81 and 1 on No. 7 Highway, totalling 13 bridges in all. Work done by the Department within villages and on connecting links on which the Department shared the cost on a fifty percent basis comprised 10,820 square feet of concrete sidewalk in the Villages of Merlin and Wyoming, and the bituminous resurfacing on Highway No. 18 in Kingsville. In addition, a considerable amount of work was done on a fifty percent basis in Townships on Municipal drains. 562.07 miles of Highway were kept open during the winter under severe conditions.

DIVISION NO. 2 — LONDON

Hot mix bituminous pavement was laid for a distance of 5.6 miles on Highway No. 59 from the Village of Norwich southerly.

Resurfacing with bituminous hot mix on Highway No. 2 was placed on 1.1 miles 30 feet wide easterly from the limits of the City of London and a further 8.4 miles was placed to complete the resurfacing on the adjoining 10.9 miles easterly, also 4.1 miles was placed from Princeton easterly, making a total of 13.6 miles.

Bituminous surface treatment was given to pavements on Highway No. 2 for 7.3 miles, on No. 3 for 9.55 miles, on No. 4 for 6.95 miles, on No. 5 for 3.8 miles, on No. 19 for 6.1 miles and an armour coat in the Village of Vienna of 0.7 miles, on Highway No. 24 for 2.4 miles, on No. 53 for 8.35 miles and on Highway No. 75 for 2.6 miles, making a total of 47.75 miles resurfaced.

Bituminous prime was applied to gravel surfaces on Highways No. 7, No. 59, No. 73, No. 74, No. 80 and No. 81, totalling 92.1 miles. Prior to priming a light application of crushed gravel was applied on 55 miles of roadway and a further quantity stock piled for future use on Highways No. 73, No. 74, No. 80 and No. 81.

Regrading of Highway No. 59 from Woodstock to Delhi was commenced and 3.7 miles from Woodstock south, and 10 miles between Norwich and Delhi was completed with the exception of shouldering. The grading of a relocation, improving the alignment of a hitherto sharp reverse curve at the western approach to Simcoe on Highway No. 3 was completed. An old narrow subway at the Canadian National Railway crossed the Highway on Highway No. 24 was removed and tracks across the road removed. Facilities were provided for access from the Highway to the stub end of the railway.

Bridge painting was done on 2 bridges on Highway No. 2, 4 on No. 4, 1 on No. 22, 1 on No. 53, making a total of 8 bridges painted.

During the summer considerable pavement patching was done and some weed eradication accomplished by spraying with weed killer. During the winter bituminous patching material was prepared for pavement maintenance. Usual routine summer maintenance was carried on. All Kings Highways, totalling 484 miles, were kept open during the winter and ice control carried out by use of sanding and by the application of chemicals.

Division No. 3 — Stratford

Hot mix bituminous pavement was completed for a distance of 8 miles on Highway No. 4 between Wingham and Teeswater, and on 7 miles from Teeswater to Highway No. 9, and on Highway No. 21 from Port Albert to Amberly 10 miles, and on 10 miles from Amberly to Kincardine, also on Highway No. 23 for 6 miles between Russeldale and Mitchell, on Highway No. 86 from Bluevale to Wingham 3 miles, and on Highway 87 Bluevale easterly 2 miles, totalling 46 miles.

Bituminous resurfacing was done on pavements on Highway No. 7, both east and west of St. Mary's, totalling 12 miles, together with necessary shouldering.

Surface treatment was given to pavement on Highway No. 8 for 7 miles, on No. 21 for 13 miles, on No. 23 for 18 miles, on No. 85 for 5.7 miles and on Highway No. 97 for 4.7 miles, making a total of 48.4 miles resurfaced.

Bituminous prime was applied to gravel surfaces on Highways No. 19, No. 21, No. 23, No. 83, No. 84, No. 86, No. 87, No. 97 and No. 100, totalling 199 miles. Crushed gravel was placed on 108 miles of roadway prior to priming and on 10 miles not primed, totalling 118 miles of gravel applied.

Grading, culvert construction, and placing selected granular base courses was done in preparation for pavements on Highway No. 4 a distance of 7 miles from Teeswater to Highway No. 9 and shouldering was completed on the pavement between Wingham and Teeswater. On Highway No. 21 shouldering was done on 10 miles from Port Albert to Amberly. From Amberly to Kincardine grading, culvert construction and placing of granular base was done on 10 miles. On Highway No. 23 from Russeldale to Mitchell similar work was done in preparation for pavement, and similarly Highway No. 86 from Bluevale to Wingham and on Highway No. 87 for 2 miles east of Bluevale.

Work was commenced on a new bridge at Bayfield and besides culverts constructed under the grading operations mentioned above, a concrete culvert was built south of Kintore. The usual routine maintenance was carried on and all King's Highways were kept open during the winter, with snowplowing done on 580 miles of roads. Where the Highways were regraded the right-of-way was widened to 100 feet. Approximately 1 mile of snow hedge was planted. Considerable new fencing of right-of-way was done.

Widening of Highway No. 11, Near Langstaff.

Placing Granular Material on Highway No. 11 Between Cachrane and Hearst.

Rolling Hot Mix Pavement on Highway No. 4, South of Teeswater.

Maintenance Truck to Service Lighting and Traffic Signal Installations.

DIVISION NO. 4 — HAMILTON

Bituminous resurfacing was done through Merritton. Surface treatment was given to Highway No. 3 from Dunnville easterly 0.5 miles and from Nelle's Corners easterly 4.4 miles, on No. 3A for 10.5 miles from Welland to Chambers Corners, on Highway No. 8 for 19.6 miles from the Stoney Creek monument easterly to St. Catharines, but omitting the Town of Grimsby and the Village of Beamsville, on Highway No. 20 for a distance of 4.2 miles from Elfrida to the Lincoln County line, and Highway No. 24 for 5 miles from Port Dover westerly, on No. 26 for 8 miles from Black Heath, on Highway No. 54 in Cayuga 0.7 miles, and on Highway No. 99 for 5.0 miles from Dundas to Copetown, totalling 57.9 miles of treatment.

Bituminous prime was applied on Highway No. 2 on the Ancaster Hill, on No. 25 from Milton to Acton, No. 52 for its entire length, on Highway No. 54 on all gravel surfaces, on No. 57 for its entire length, on No. 97 from Galt to the Waterloo County line, on Highway No. 99 from Copetown to Highway No. 24, on the Queen Elizabeth Way on the westbound traffic lanes from Niagara Falls to Fort Erie totalling in all 93.4 miles of prime.

Miscellaneous work included the construction of 4 culverts and the grading of their approaches on Highway No. 54, and the painting of bridges Nos. 1 and 2 at the Hamilton entrance on Highway No. 2, the painting of the Oakville Creek bridge on Highway No. 5, the painting on Highway No. 6 of 2 bridges between Caledonia and Hagersville. The construction of a major bridge at Tansley over Bronte Creek was commenced. Rock groins were built offshore on the lake front at Jordan Park on the Queen Elizabeth Highway to mitigate scour from wave action. Some grading and sodding was done in the Park. Pavement patching was done on Highway No. 3A from Welland northerly 4.0 miles, and on Highway No. 20 from Fonthill easterly to Turners Corners, and between Smithville and Bismark, while on Highway No. 58 patching was done from Highway No. 8 to Merritton.

The usual maintenance routine was carried out and all King's Highways kept open during the winter. Snow plowing was done on 598 miles of King's Highways.

DIVISION NO. 5 — OWEN SOUND

Bituminous hot mix pavement was laid on Highway No. 6 from Wiarton for 7.6 miles southerly, and on Highway No. 24 from Collingwood south to the railway crossing, a distance of 5.0 miles. Preparation for both these pavements consisted of the reconstruction of the old existing road. The right-of-way was widened to 100 feet and low sections regraded. A selected granular base course was placed to support the pavement. Surface treatment was given on Highway No. 6 for a distance of 9 miles, on No. 21 for 11 miles, making a total of 20 miles surface treated.

Bituminous prime was applied to gravel surfaced roads as follows: on Highway No. 4 for 18.80 miles, on No. 6 for 54.34 miles, on No. 9 for 11.7 miles, on No. 21 for 2.5 miles, on No. 24 for 57.66 miles, on No. 51 for 2.5 miles, and on Highway No. 91 for 5.2 miles, making in all a total of 152.7 miles.

Enough gravel was crushed and stock piled for 20 miles on Highway No. 6 and for 2 miles on Highway No. 24.

In addition to the foregoing major items, the usual routine maintenance was carried out. The winter maintenance was particularly heavy due to extensive and frequent heavy falls of snow. Snow plowing was done on 493 miles of King's Highways.

Division No. 6 — Toronto

Concrete pavement 22 feet in width was placed on 12.72 miles of travel lanes on the controlled access four lane highway between Highland Creek and Oshawa.

Concrete base with Asphalt Binder was placed on 2.7 miles of widening on No. 11 highway between Steele's Corners and Richmond Hill and the resultant 30 feet of roadway was surfaced with 1 inch of trap rock asphaltic concrete.

Bituminous Hot Mix Pavement was laid on Highway No. 12 for 8.24 miles from Beaverton to Brechin, on Highway No. 27 for 1.94 miles through the villages of Cookstown and Thornton, on Highway No. 48 for its length of 6.1 miles, on Highway No. 50 for 5.21 miles from Highway No. 7 to Highway No. 49, making a total of 21.49 miles of Hot Mix Pavement.

Bituminous Resurfacing was placed on pavements on Highway No. 5 for 5.04 miles from Erindale to Trafalgar, on Highway No. 11 for 3.25 miles between Fennel's Corners and Stroud, on the Queen Elizabeth Way for 6.8 miles on the south lanes, easterly from the C.N.R. Railway crossing at Freeman and on the north lanes from the junction of Highway No. 25 easterly 0.35 miles and for 0.9 miles east and 0.45 miles west of the Bronte bridge, making a total of 16.79 miles resurfaced.

Bituminous Surface Treatment was given pavements on Highway No. 7 for 10 miles between Woodbridge and Brampton, on Highway No. 11 for 22 miles between Barrie and Orillia, on Highway No. 12 for 9 miles between Manchester and Sunderland, and for 5 miles between Waubaushene and Midland; on Highway No. 27 for 4.35 miles from Highway No. 5 to the new Malton Road, and for 12 miles between Midhurst and Elmvale, totalling 62.35 miles of surface treatment.

Bituminous Prime was applied to 107 miles of traffic bound gravel or macadam road surfaces.

Grading and Culvert Construction was done as follows: A major grading project for the construction of a divided controlled access highway between Toronto and Barrie, a distance of 45.7 miles and including all required structures was placed under contract. Owing to shortages of construction materials, particularly reinforcing steel, only one major structure, a bridge over the Humber River, was completed. The work done during the season was mainly on grading, culverts, drainage, fencing and sodding. Approximately 70 percent of the grading was completed.

On Highway No. 12 a distance of 8.24 miles from Beaverton to Brechin, and also a distance of 1.5 miles between Coldwater and Waubaushene was graded. Highway No. 48 was graded for 6.1 miles also Highway No. 50 for 5.21 miles from the junction of Highway No. 7 to Highway No. 49. Culverts were renewed or extended as required.

Reditching was done on Highway No. 27 between Bondhead and Thornton, a distance of 10.65 miles.

Granular base course was placed as follows: On the grading done between Beaverton and Brechin a distance of 8.24 miles and for 1½ miles between Coldwater and Waubaushene, on Highway No. 27 for 10.65 miles, on Highway No. 48 for 6.1 miles, on Highway No. 50 for 5.21 miles from Highway No. 7 to Highway No. 49, on Highway No. 88 for 5.75 miles and on the divided controlled access highway between Highland Creek and Oshawa 19.26 miles of travel way. Some granular base was placed on the controlled access highway between Toronto and Barrie.

Traffic Bound Macadam was placed on Highway No. 27 for 10.65 miles between Bondhead and Thornton, and on Highway No. 88 for 5.75 miles.

Storm Sewers were constructed on Highways No. 5 and No. 7, No. 11, on the controlled access highway between Highland Creek and Oshawa totalling 7.22 miles and 2.5 miles were placed between Toronto and Barrie on the new controlled access highway.

Curb and gutter were constructed on Highway No. 11 for 1.60 miles.

Concrete sidewalk was constructed on Highway No. 11 for 0.2 miles and cinder sidewalk for 0.08 miles.

Routine maintenance was carried on both during the summer and winter, and snow plowing and ice control was done on 600 miles of roads.

Division No. 7 — Port Hope

Hot mix bituminous pavement was placed on No. 7 Highway from a point seven miles east of Peterboro easterly for 2.5 miles, on Highway No. 30 from Brighton to Warkworth side road 13 miles, on Highway No. 41 from Picton north 1.5 miles, totalling 17.0 miles.

Road mix bituminous mulch was placed on Highway No. 28 from Bewdley north over old pavement for a distance of 2 miles, and on Highway No. 35 from Fenelon Falls north for 2 miles. On Highway No. 36 road mix mulch was laid over short paved sections for an aggregate length of 4 miles between Lindsay and Bobcaygeon. In addition to road mix mulch placed on King's Highways, 2.7 miles of road mix was placed on County road No. 20 and 1.5 miles on County road No. 13 from Fenelon Falls north to the Burnt River road, totalling 12.2 miles.

In preparation for the placing of pavement the following grading work was done: On Highway No. 7 from 7 miles east of Peterboro and easterly 5.5 miles of grading and granular base, Highway No. 28 granular base course was placed on an old pavement for a distance of 2 miles, on Highway No. 30 from Brighton to Warkworth side road granular base for 13 miles, on Highway No. 35 from Fenelon Falls north granular base course for 2 miles, on Highway No. 36 between Lindsay and Bobcaygeon granular base for 4 miles, on Highway No. 41 from Picton north 4 miles were graded, on County road No. 20 from Fenelon Falls Cut-off grading and granular base course for 2.7 miles, and on County road No. 13 grading and granular base course for 4.5 miles.

Surface treatment was given to pavements on Highway No. 2 for a distance of 5.65 miles, on No. 7 for 2.7 miles, on No. 7A for 6.98 miles, on No. 14 for 17.03 miles, on No. 33 for 4.75 miles, on No. 36 for 21.05 miles, making a total of 58.16 miles of surface treatment.

Bituminous prime was applied to Highway No. 7 for 23.1 miles, No. 7A for 22.8 miles, No. 28 for 10.6 miles, No. 30 for 10.0 miles, No. 35 for 43.3 miles, No. 36 for 4.4 miles, No. 41 for 8.0 miles, No. 45 for 27.6 miles, No. 46 for 20.7 miles, and on secondary roads 9.5 miles, making a total of 180.0 miles of prime applied.

Miscellaneous work done, other than above, included crushing and stock piling of gravel on Highway No. 7A between Highway No. 28 and the Caesarea Turn, and on No. 35 between Orono and five miles south of Lindsay, on No. 35 between Bobcaygeon and Buckhorn and on the Catchacoma Secondary Road.

Loading Salt, Used in Ice Control, From Stockpile.

Plow and Bulldozer Clearing Snow-Blocked Highway.

The usual routine maintenance was carried on for the year. Snow plowing was done on 553.6 miles of King's Highways and on 104 miles of Secondary Roads.

DIVISION NO. 8 — KINGSTON

Hot mix bituminous pavement was placed for 12 miles on the south lane of the divided Highway along the St. Lawrence River between Gananoque and Rockport, and on Highway No. 29 between Smiths Falls and Franktown 8 miles, on Highway No. 38 from Highway No. 7 to Tichborne 10.4 miles, totalling 30.4 miles.

Bituminous resurfacing and grade improvement was completed for 7.7 miles easterly from Shannonville and 5.5 miles from Crystal Beach to Mallorytown, totalling 13.2 miles.

Granular base was placed in preparation for pavement for 14 miles of the divided Highway referred to above. Grading and culvert construction was started on Highway No. 15 between Perth and Innisville, but only three miles of grading was completed. Grading and culvert construction was started on Highway No. 29 between Smiths Falls and Franktown and 8 miles out of the 10 involved were completed. Rock excavation and the raising and widening of the causeway at Sharbot Lake on Highway No. 38 was partially completed.

At the Moira River Highway No. 37 a diversion 3,500 feet long was graded and the new bridge was completed.

Surface treatment was given to pavements on Highway No. 2 for 17 miles between Kingston and Gananoque, on Highway No. 7 for 12 miles between Bathurst and Silver Lake, on Highway No. 37 for 17 miles in the vicinities of Tweed, Actinolite, Corbyville and Thomasburg, on Highway No. 38 for 19 miles between Cataraqui and Verona, and on Highway No. 42 for 15 miles between Forthton and Delta, a total of 80 miles of treatment.

Bituminous prime was applied on the gravel surface of the divided Highway between Gananoque and Brockville for a distance of 52 miles of roadway, and on Highway No. 7 between Sharbot Lake and Actinolite for 31.5 miles, and on Highway No. 37 for 10.2 miles between Roslin and Tweed, and on Highway No. 38 for 27.5 miles between Hartington and the junction of No. 7 Highway, on Highway No. 41 for 15 miles between Erinsville and Kaladar, Secondary Road Sharbot Lake to Clarendon for 5.2 miles making a total of 141.4 miles primed.

The usual routine maintenance work was carried out, and 562 miles of road were kept open by snow plowing during the winter. Skin patching on Highway No. 15 was done on 12 miles between Seeley's Bay and Elgin.

DIVISION NO. 9 — OTTAWA

Intermittent bituminous resurfacing was done on pavements on Highway No. 2 on 12 miles between Glen Walker and Westley Creek and for 18.5 miles between Johnston and Morrisburg, on Highway No. 15 on 3.67 miles between Hazeldean and Stittsville, on Highway No. 16 on 10 miles between Jock River and Ottawa, and on Highway No. 17 on 5.68 miles between Clarence and Wendover, and from Ottawa west limits on Highway No. 17 to Rifle Range Road, 7.81 miles.

Bituminous road mix mulch was placed on Highway No. 43 from Highway No. 31 to the Chesterville Railway Crossing for 6.02 miles.

Bituminous prime was applied to 24.93 miles of gravelled surfaces.

Dust layer was applied to 44.8 miles of gravel surfaces.

Grading and placing of selected granular base was done on two diversions on Highway No. 17 between Alfred and L'Original in preparation for pavement work. Granular base was placed on sections of broken surface of Highway No. 31 north and south of Vernon a distance of 7.48 miles. On McNab Township Development Road culvert construction and grading for same was done between Highway No. 17 and Burnstown. A drainage ditch 1 mile long was constructed on the road from Highway No. 17 to Douglas.

Crushed gravel was applied to 11.2 miles on Highway No. 44 from the Martin Street intersection at Almonte to Carp River. Crushed gravel was also applied on the Secondary Road between Calabogie and Burnstown.

Widening of right-of-way was done on several sections and the widened areas fenced. On Highway No. 34 a considerable amount of ditching was done on widened areas of right-of-way.

General routine maintenance was carried out. Snow plowing was done on 528 miles of roads.

Division No. 10 — Bancroft

A bituminous road mix mulch was placed on Highway No. 41 from Cloyne south a distance of 7 miles to meet the mulch laid the previous year. This completes the pavement from Kaladar to Cloyne. Mulch was also laid on Highway No. 60 between Wilno and Barry's Bay a distance of 5 miles, and 0.75 miles through Madawaska and again on 7 miles westerly of a point 2 miles west of Madawaska, and on Highway No. 62 on 18 miles from 5 miles east of Maynooth to Combermere, totalling 37.75 miles.

Reshaping, widening cuts, ditching, etc., was done on Highway No. 7 for 9 miles between Madoc and Actinolite, and on Highway No. 60 for 10 miles between the intersection of the County Road and Golden Lake, on Highway No. 62 for 33 miles from Killaloe to Pembroke, on the Secondary Road (Town line road-Hastings Boundary) and general reconditioning was done on the Killaloe-Brudenell Secondary Road.

Regrading was done on Highway No. 62 for 3 miles from Madoc north, bringing it to a Class C standard, and a mile of swamp filled north of Millbridge.

Bituminous prime was applied to gravel surfaces on Highway No. 41 from Dacre Turn to Eganville a distance of 13 miles, on Highway No. 60 for 32 miles from Barry's Bay to 3 miles east of Whitney, on Highway No. 28 for 46 miles between Burleigh Falls and Bancroft, on Highway No. 62 for 58 miles between Madoc and the pavement 3 miles east of Maynooth. Prime was also applied on the Secondary Road from Maynooth to Lake St. Peter 6 miles, and on the Secondary Eganville to Kelly's Corners road for 4¾ miles, making a total of 159.75 miles. Calcium chloride dust layer was applied on Highway No. 62 from Killaloe to Pembroke and on places on the Killaloe-Brudenell road.

A considerable amount of gravelling of roads was done using both pit run and crushed gravel.

Miscellaneous work included the replacement of 5 wooden culverts with corrugated iron pipe and the elimination of two wooden bridges by diverting a stream.

Regular maintenance was carried on as usual, and snow plowing was done on Highway No. 7 from Madoc to Actinolite, on No. 41 from Kaladar to Eganville, on No. 60 from Barry's Bay to Whitney, on No. 28 from Burleigh Falls to Bancroft, on No. 62 from Madoc to Pembroke and on Secondary Roads: Maynooth to Whitney, Apsley-Lasswade-Clydesdale, Madawaska-Cross Lake (occasionally), Killaloe-Round Lake (occasionally), the Killaloe-Brudenell Road, the Combermere-Burgess Mine Road (occasionally), Combermere-Quadville (occasionally), Eganville-Kelly's Corners, Eganville-Cormac, Dacre-Hynaford, and Dacre-Shamrock Roads. Total miles of King's Highways snow plowed was 359 miles, and of Secondary Roads 172 miles.

Division No. 11 — Huntsville

Bituminous resurfacing of pavement with hot mix was done on Highway No. 11 for 0.5 miles between Severn and Gravenhurst, for 0.9 miles between Gravenhurst and Bracebridge, for 1.6 miles between Bracebridge and Huntsville, for 1.0 miles between Huntsville and Emsdale, 1.5 miles between Emsdale and Burks Falls and 1.0 miles between Burks Falls and Sundridge. On Highway No. 35 0.25 miles was resurfaced at Dorset, on Highway No. 60 at the junction with Highway No. 35 for 0.5 miles, on Highway No. 69 between Gravenhurst and Bala 3.25 miles, while on Secondary Roads between Bracebridge and Highway No. 69, Bracebridge to Baysville and Huntsville to Locks a total of 2.75 miles was resurfaced, making a grand total of 13.25 miles resurfaced.

Road mix mulch was placed in Villages of the Districts of Parry Sound and Muskoka for a total aggregate of 10 miles of road surface, and on Highway No. 69 from Hayes Corners northerly for 7.5 miles making a total of 17.5 miles of mulch.

Bituminous surface treatment was given on Highway No. 69 for 5.0 miles from Bala to Glen Orchard, and on No. 11 for 5.5 miles between Severn and Huntsville, on No. 35 for 22.0 miles between the south boundary of the Division and Boshkung Beach and for 16.5 miles between St. Norah's Lake and Dwight, on the Secondary Road from Highway No. 69 to McKellar and through Villages in Haliburton County for 17 miles, making a total of 66 miles of surface treatment.

Bituminous prime was applied to gravel surfaces on Highway No. 69 on 19.5 miles between Glen Orchard and Hayes Corner and on 19.0 miles between Nobel and Point au Baril. Prime was also applied on Secondary Roads from Highway No. 69 to Dunchurch 24 miles and between Huntsville and Baysville for 6.0 miles, making a total of 68.5 miles of prime applied.

Grading work done consisted of the completion by day labour of several unfinished revisions on the Secondary Road between Kinmount and Gooderham.

Regular maintenance routine was carried out on all roads under the Division. Snow plowing was done on 291.1 miles of King's Highways and on 367.6 miles of Secondary Roads and on 29 miles of Township Roads, totalling in all 687.7 miles of roads plowed.

Division No. 13 — North Bay

Resurfacing with bituminous hot mix was done on Highway No. 11 for 7.6 miles between Callender and Trout Creek.

Bituminous road mix mulch was placed for 0.8 miles on Highway No. 17 on the new diversion near Chalk River, and 2 miles of mulch patching west of Warren and east of Verner; on Highway No. 63 Feronia north for 10 miles, and on the road between Petawawa and the Ottawa River for 1.9 miles, making a total of 12.7 miles of new mulch pavement and 2 miles of patching.

Bituminous surface treatment was given to pavements on Highway No. 11 for 8 miles between Callender and North Bay, on No. 17 for 9 miles between Sturgeon Falls and Verner, and for 5.2 miles between Verner and Hagar; on No. 63 for 8 miles between North Bay and Feronia, on No. 94 for 6.2 miles between Callender and Highway No. 17 and on the North Bay airport road 3.2 miles. Bituminous surface treatment was given to primed surfaces on Highway No. 17 for 13.5 miles at various places east of North Bay, making in all a total of 53.1 miles of surface treatment.

Bituminous prime was applied to gravel surfaces on Highway No. 11 for 15 miles from mileage 40 to mileage 55 north of North Bay, on No. 17 for 84 miles between Port Alexander and North Bay, on No. 63 for 22 miles between the Ottawa River and North Bay, on No. 64 for 14 miles between Sturgeon Falls and Field, making a total of application on 135 miles of surface. Dust layer was applied for 22 miles between Field and Highway No. 11 and on the Hagar-Noelville Road and through Villages south of Noelville, on the Verner-Muskrat River Road through the Village of Lavigne, also on the Powasson Restoule Road and on the Trout Creek-Loring Road.

Grading of a 5 mile diversion on Highway No. 17 west of Verner was commenced and 3.5 miles were completed and opened to traffic by fall. This work included grading culverts and granular base course.

Clearing and grading of a new road 2.5 miles between the Muskrat River and the west arm of Lake Nipissing was commenced and fifty percent completed.

Three concrete culverts were built on Highway No. 63 replacing old wooden structures. A contract was let for a new bridge over the Sturgeon River in the Village of Field, but shortage of steel precluded its completion.

Gravel to the amount of 126,170 tons was crushed for road purposes.

Regular routine maintenance was carried on through the season and 509 miles of road were snow plowed and kept open for winter use, together with the necessary sanding.

Division No. 14 — New Liskeard

Bituminous hot mix pavement was laid on Highway No. 11 for 17 miles south of Latchford.

Bituminous hot mix resurfacing was laid on old pavement for 10 miles on Highway No. 11 between Aidie Creek and Boston Creek.

Bituminous surface treatment was applied to pavement for 20 miles between Latchford and New Liskeard.

Bituminous road mix mulch pavement was laid on Highway No. 67 for 2 miles between Barber's Bay and Connaught.

Bituminous prime was placed for 15 miles on Highway No. 101 from Matheson west and for 6 miles on the Bayside Beach Road.

Grading and culverts on a diversion at Barber Lake on Highway No. 66, commenced the previous year, was completed and a start made on three other major diversions between Larder Lake and the Quebec boundary on the same Highway. On the Munroe Road east of Matheson reconstruction of 10 miles of the existing road and 13 miles of new work totalling 23 miles was commenced but only 70% was completed. On Highway No. 65, just west of New Liskeard, a concrete culvert was installed and the fill over it raised, and major bridge repairs were made on two bridges at Elk Lake.

Blower Widening Highway No. 6, North of Fergus.

Blower on Highway No. 9, West of Arthur.

Reshaping of the Secondary Road via Hilliardton to Heaslip and the McCool-Thornloe-Earlton Road was done. A fill was raised and new corrugated iron culverts installed on the Bidgood Road.

Gravelling was done on Highway No. 11 for 40 miles north of Kenogami Lake, and on the Lorrain Road, on the Haileybury West Road, the north Temiskaming Road, the McCool-Thornloe-Earlton Road, the Gowganda Road and spurs, on the Sandy Falls and West Road, on the Holtyre Road, on the Martin Bird Road and on the Cheminis Road, also on the Larder Lake station Road, the Sesekinika Road, and on the Goldhawk Road.

General routine maintenance was carried on and 327.6 miles of King's Highways were kept open by snow plowing for their entire length and 213 miles of Secondary Roads were plowed.

Division No. 16 — Cochrane

Bituminous road mix mulch pavement on Highway No. 67 was laid for 6 miles between Porquis Junction and Iroquois Falls. A second stretch of 4 miles of mulch was laid on the spur road from No. 11 Highway to and into the Village of Geraldton.

Some grading was done on Highway No. 11 at Klotz Lake in ditching and widening of silty cuts which were sliding onto the roadway.

Select granular base course material was placed on an 80-mile stretch on No. 11 Highway between Fauquier and Hearst.

Approximately 50,000 cubic yards of pit run gravel was placed on 87 miles of Secondary Roads.

Numerous old timber bridges in the Division were repaired and a new pile and timber structure 250 feet in length was erected at the Opasatika River on Highway No. 11 to replace the old one which had become unsafe. Extensive repairs were made to the Frederickhouse River bridge 5 miles west of Cochrane. Painting was done on 4 major steel structures; the Ground Hog, Lost River, Pagwa River and Longlac overhead, all on Highway No. 11.

The ferry barge on the Abitibi River east of Cochrane is being replaced by a new sectional barge and assembly of the sections was commenced at the site.

Routine maintenance was carried on through the Division despite equipment shortages and the general difficulties of the times. During the winter 179 miles on Highway No. 11, between Porquois Junction and Hearst, were kept open by snow plowing.

Division No. 17 — Sudbury

Bituminous road mix mulch was placed for 1.5 miles on Highway No. 17 between Hagar and Markstay, on Highway No. 68 north from Little Current 1.8 miles, while on Manitoulin Island 3.5 miles were placed south of Little Current, at Sheguiandah 0.3 miles, at Manitowaning 1.0 miles, at Mindemoya 0.9 miles, at Gore Bay 1.4 miles, and 0.6 miles west from Little Current. On the mainland on Secondary Roads, 2.5 miles were placed north of Sudbury on the Sudbury-Capreol Road, 1.0 miles at Capreol on the same road, and 1.8 miles on the Long Lake Road making a total of 16.3 miles of mulch for the Division.

Bituminous prime was applied to gravel surfaces on Highway No. 17 for 30 miles between the Vermillion River and Webbwood.

Bituminous surface treatment was given to pavements on Highway No. 17 for 8.7 miles between Copper Cliff and Whitefish, and for 6.5 miles between Hagar and Markstay and on the Secondary Roads as follows: 8.5 miles on the Falconbridge Road from Highway No. 17 to Falconbridge, and 8.2 miles from Sudbury to Larchwood, 1.3 miles from Sudbury to Frood, and 3.0 miles on the Creighton Road from Highway No. 17 to Creighton, making a total of 36.2 miles surface treated.

Several diversions were graded to improve dangerous traffic conditions at curves and hills. One diversion was on Highway No. 68 between Espanola and Highway No. 17. Two short diversions on the Long Lake Road were completed. Three diversions were constructed and opened to traffic on the Capreol, Skead, and Little Current to Gore Bay Roads. Regrading between Chelmsford and Larchwood was completed.

The Renabie Mine north of Missanabie was reopened necessitating some maintenance on the road to the mine.

A park at Indian Point on Manitoulin Island was established and additional wayside tables were placed for the use of the travelling public at several locations in the Division.

General maintenance work was increased over that of the previous year with appreciable improvement to the roads and especially to guide rail conditions. Winter maintenance was fairly severe as in most parts of the Province. 134.6 miles of King's Highways were kept open and 300.4 miles of Secondary Roads and 96 miles of organized Township roads and 9.5 miles of unorganized Township roads making a total of 540.5 miles all told.

Division No. 18 — Blind River

Bituminous road mix mulch was placed on Highway No. 17 for 6.6 miles north of Sault Ste. Marie.

Bituminous prime was applied to gravel road surfaces on Highway No. 17 for 72 miles between the east boundary of the Division and the end of the concrete pavement west of Desbarats.

Bituminous surface treatment was given to 5.6 miles of mulch laid last year through Webwood, Massey and Blind River.

Grading and culvert construction on 0.8 miles of revision to Highway No. 17 east of Walford was 95 percent completed.

Crushed gravel amounting to 76,341 tons was delivered to Highway No. 17.

Routine maintenance was carried out on King's Highways and on Secondary Roads. On the Sable River Road, considerable repairs to bridges and culverts and brushing was done and gravel placed. Seven other Secondary Roads totalling 230 miles were maintained as necessary.

Winter maintenance and snow plowing was carried out on Highway No. 17 and this road kept open through the winter by plowing from the east boundary of the Division to the Montreal River a distance of 222 miles. Some plowing was done from time to time on Secondary Roads, and some plowing was done for the Townships at their own expense.

Division No. 19 — Fort William

Bituminous hot mix resurfacing was done on sections of Highway No. 17 between Loon Lake and Ouimet, totalling 16 miles

Bituminous surface treatment was placed for 10 miles between Cloud River and the International Boundary on Highway No. 61.

Bituminous prime was applied to gravel surfaces on Highway No. 11 between Beardmore and Nipigon for 50 miles.

Two concrete bridges on Highway No. 17 on the Beaver Creek and Little Firesteel River were completed.

Work was commenced on ditching and replacing of culverts on Highway No. 17 between Nipigon and Schreiber and on the same Highway between Fort William and English River, but only 30 percent on the former and 20 percent on the latter was accomplished due to material shortages and weather.

Selected granular base course was placed on Highway No. 17 between Biota and English River and on some sections east of Schreiber.

Crushed gravel was placed in stock piles on Highway No. 17 between Raith and Firesteel River. Crushed gravel was placed in surface on the Oliver Road and several other Secondary Roads.

General maintenance was carried on under difficulty due to labor shortage, mostly on ditching. Snowplowing was done on 420 miles of King's Highways within the Division, and on 152 miles in the Cochrane Division. Plowing was done on 236 miles of Secondary Roads.

Division No. 20 — Kenora

Bituminous road mix mulch was placed on Highway No. 70 at Nestor Falls for 1 mile.

Bituminous road mix patching was done to pavement on Highway No. 17 from Longbow Corners to the Manitoba boundary, totalling in all 3 road miles of patching and further patching was done on Highway No. 70 from Longbow Corners to Mac Lake in places, as required.

Bituminous prime was applied to gravel surfaces on Highway No. 17 on 6 miles east of Ignace and on 5 miles west of Ignace, and for 6 miles from Vermillion Bay to Aaron Lake and on Highway No. 70 for 23 miles, from 1 mile north of Nestor Falls to within 4 miles of Sioux Narrows, making a total of 40 miles of roads primed.

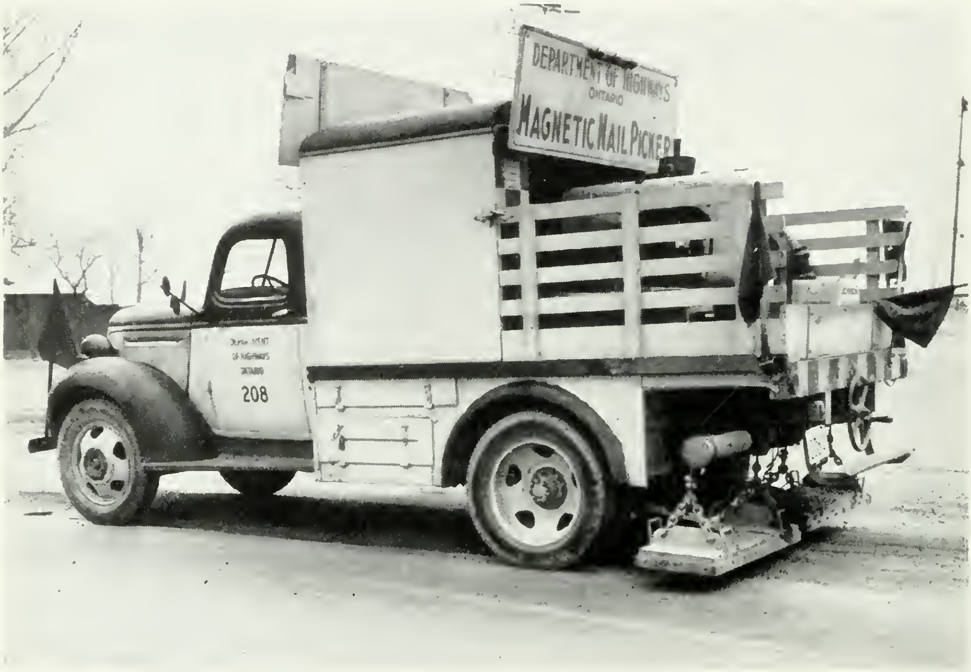
Bituminous surface treatment was given on 5 miles of prime on Highway No. 17 at Ignace, and for 6 miles east of Vermillion Bay, totalling in all 11 miles.

Grading and bridge and culvert construction was commenced on 85.7 miles of a new road leading from the end of the Minnesota Pulp and Paper Company's road near Cliff Lake, 23 miles north of Highway No. 17, and ending at Red Lake, and the revising and rehabilitation of the Minnesota Paper Company's road a distance of 13.25 miles. Construction was started early in the season and by mid December the road was in condition for winter traffic and an estimated 250 tons of supplies per day went into Red Lake during the winter. Numerous culverts and small bridges of native timber were constructed along with 3 major bridges of the same material, one at Perrault Falls, one at Trout River and one at the Chukuni River.

Select granular base course was placed for 40 miles east and 20 miles west of Dryden, amounting to 270,000 cubic yards.

Plow Opening Badly Drifted Highway.

Accumulated Snow on Highway No. 6 as of March 10th.


DEPARTMENT OF HIGHWAYS
ONTARIO
MAGNETIC NAIL PICKER
DEPARTMENT
OF HIGHWAYS
ONTARIO
208

The Magnetic Nail Picker Picks Up Metal Objects From Highways.

Developed Intersection of Highways, Nos. 15 and 29.

Crushed gravel was placed on Highway No. 17 between English River and Dryden amounting to 48,000 tons, and 6,000 tons were placed on Highway No. 70, between Mac Lake and Sioux Narrows.

General maintenance routine was carried out. Brush cutting was done from 8 miles east of Kenora to the Manitoba Boundary on Highway No. 17 and for 14 miles south of the Rushing River. Some maintenance was done on the Madsen-Red Lake Mining Road. Aapart from routine maintenance on Secondary Roads, the Lower Falls bridge on the Quibell Road was repaired and new rock filled cribs put in.

Some work was done on the Tourist Park at Rushing River. Clearing of underbrush was done at Aaron Park and some picnic tables were installed. At the Ontario-Manitoba Boundary Park low areas were filled in, topsoil placed where required and grass and shrubs planted.

Snowplowing was done on 341.1 miles of King's Highways and on 134.6 miles of Secondary Roads.

DIVISION NO. 21 — FORT FRANCES

Bituminous road mix surface was placed for 2.5 miles on Highway No. 71 within the Town of Rainy River and easterly, and on Secondary Road No. 208 in the Township of McIrvine for 2 miles.

Bituminous surface treatment was given on Highway No. 71 for 8 miles east of Emo and on Highway No. 70 for 18 miles south of Nestor Falls, on Secondary Road No. 208 from Fort Frances east to Rainy Lake approximately 2 miles, totalling 28 miles.

Bituminous prime was applied to gravel surfaces on Highway No. 70 for 20 miles from Emo northerly and on Highway 71 for 7 miles between Emo and Barwick, totalling 27 miles.

Dust layer was applied on Highway No. 71 between Barwick and Sleeman and Highway No. 70A for its entire length of 14 miles, and for 5 miles on the Stratton Road.

Grading on Secondary Devlin Road No. 202 was done on a 6.25 mile stretch, terminating at Lake Despair.

Culverts and the necessary regrading were constructed on Highway No. 71 near Stratton, 1 on Secondary Road No. 202 near Devlin, 4 on the Sleeman Secondary Road No. 206 in the Township of Pratt. On the Spohn-Dearlock Road No. 207, one culvert was installed 3 miles east of Bergland, and 3 more installed in the Township of Richardson.

A bridge on Secondary Road No. 204 was rebuilt over the Pine River.

Crushed gravel was placed between Barwick and Sleeman on Highway No. 71 and on Secondary Road No. 206 for 7 miles.

General routine maintenance was carried out. Snowplowing was done on all King's Highways and Secondary Roads. Considerable plowing was done for Municipalities. Total mileage of King's Highways plowed was 109.7 and total on Secondary Roads was 203.6.

BRIDGES COMPLETED DURING THE YEAR 1946

Arthur Sedgwick, Chief Bridge Engineer

During the year, a total of 2,736 lineal feet of bridges was completed by the Department.

Moira River Bridge, Highway No. 37

This is a continuous girder bridge consisting of 36-inch rolled girders forming five spans—three interior spans of 78 feet each and end spans of 58 feet each. Four lines of girders were used to support a roadway 30 feet wide. Shear cleats were welded to the top of the girders which were embedded in the concrete floor. This forms a composite structure with the concrete deck assisting the steel girders in flexure and thus stiffening the whole deck against vibration.

The piers were formed of steel pile caissons driven to rock and filled with concrete. This method of construction avoids what would otherwise be a costly coffer-daming and unwatering undertaking.

The bridge was built on a new diversion, permitting much easier grades and curvature on the approaches as compared to the old structure.

Boulter Bridge (York River)

New abutments were built for a township road bridge for the township of Carlow on the Hermon-Combermere road and an old steel bridge 137 feet long was moved from the Garden River on Highway No. 17, south of Sault Ste. Marie.

Inglis Bridge

An old steel truss was moved from Timmins and erected on timber pile bents for the township of Marter. The truss span is 125 feet long and this, with five timber trestle spans, forms a new crossing over the Blanche River for the township.

Red Lake Road

Native timber bridges were built over all waterways on the new Red Lake Road. At the Bug River, eighteen 15-foot trestle spans were used. At Chukuni River, twenty-six 15-foot spans, together with a 36-foot truss span, over the navigation channel, were constructed and at Trout Lake River, thirty-six 15-foot trestle spans and one 36-foot truss span were required. At Perrault Falls, three 30-foot truss spans were built. All the timber for these structures was cut and sawn in the neighboring woods.

A complete list of all bridges constructed is given in Appendix No. 4.

REPORT ON THE WORK OF THE MUNICIPAL ROADS BRANCH FOR THE YEAR 1946

J. A. P. Marshall, Chief Municipal Engineer

COUNTY ROADS

Since the passing of The Highway Improvement Act in 1901 and to the end of 1946, a total of $178,527,216.97 has been expended on construction and maintenance of county roads, of which the province has contributed $85,655,799.92. This includes the county expenditure during 1946 on which the provincial subsidy was paid in the 1946-47 fiscal year.

At the end of 1946 the province was paying subsidies to the counties on 8,710 miles of county roads—approximately 15 per cent. of the total road mileage in the area covered by the county road system.

Expenditure on county roads in 1946 was $7,392,946.45, and the provincial subsidy paid thereon in the 1946-47 fiscal year was $3,769,755.43. Work on which this expenditure was made included the following:

Construction Work

Gravel or Stone	82.30	Miles
Low-Cost Bituminous Surfaces	99.15	"
Mixed Macadam and Asphaltic Concrete	64.17	"
Cement Concrete	.50	"
Total	246.12	"
Bridges over 10-Foot Span	22	"
Pipe and Tile Culverts	770	"
Other Culverts	108	"

Maintenance Work

Bituminous Surface-Treatment	466	Miles
Dust-Prevention Treatment (Oil)	497	"
Dust-Prevention Treatment (Calcium)	2,158	"
Clay-Gravel Stabilization (Calcium and Salt)	153	"
Gravel and Crushed Stone Resurfacing:		
(a) Pitrun Gravel Applied	80,602	Cu. Yds.
(b) Crushed Gravel Applied	669,086	" "
(c) Crushed Stone Applied	77,173	" "
Snow Removal:		
(a) Mileage of Road kept open with Mechanical Equipment	8,186	Miles
(b) Snow Fence Erected	1,220	"
Weed-Spraying	1,209	"

Mileage Adjustments

During 1946 the following changes in the county road systems were approved:

County	Additions *Miles*	Deletions *Miles*
Bruce	....	0.70
Carleton	9.00	2.05
Dufferin	11.00	....
Frontenac	0.50	....
Grey	....	0.55
Haldimand	1.59	....
Halton	5.00	....
Hastings	0.25	....
Kent	4 00	....
Lambton	1.90	....
Lanark	0.75	....
Leeds and Grenville	12.00	....
Lennox and Addington	9.70	....
Lincoln	9.50	....
Norfolk	3.00	....
Northumberland and Durham	....	1.00
Ontario	35.10	....
Oxford	11.30	....
Peel	14.40	....
Perth	36.00	....
Waterloo	7.00	....
Wellington	25.50	....
York	....	4.30
TOTAL	197.49	8.60

COUNTY SUBURBAN ROADS

The mileage of suburban roads is 882 miles. The approved expenditure at the end of 1946 amounted to $33,193,132.34, of which the cities and separated towns have contributed $8,631,105.90, or five per cent. of the total expenditure made on the county road systems.

In 1946 the expenditure on county suburban roads was $1,100,907.73, of which the province contributed $574,409.70 and the cities $263,249.01.

EXPENDITURES ON COUNTY SUBURBAN ROADS—1946

Name of County	Mileage	Approved Expenditure	Government Grant
Brant	28.4	$ 38,791.44	$ 19,395.72
Carleton	90.0	184,581.29	95,274.62
Elgin	20.0	21,775.99	10,887.99
Essex	41.0	8,958.62	4,479.31
Frontenac	38.7	31,918.88	15,959.44
Grey	32.5	32,224.39	16,112.19
Hastings	5.3	5,085.21	2,542.61
Kent	9.7	2,218.94	1,109.47
Lambton	14.5	13,604.91	6,802.46
Lanark	6.0	8,693.79	4,346.89
Leeds and Grenville:			
Brockville	7.6	7,473.25	3,736.63
Smith's Falls	5.1	2,104.25	1,052.13
Lincoln	14.8	17,699.28	8,913.12
Middlesex	54.1	32,190.27	16,095.13
Ontario	16.2	19,156.98	9,867.69
Oxford	3.9	2,838.54	1,419.27
Perth	7.5	3,606.18	1,803.09
Peterborough	76.4	44,544.36	22,272.18
Stormont, Dundas and Glengarry	30.0	24,453.74	12,226.87
Waterloo:			
Galt	14.2	14,365.97	7,182.99
Kitchener	11.0	10,500.34	5,250.17
Welland:			
Niagara Falls	9.9	7,367.59	3,683.79
Welland	7.0	4,319.72	2,159.86
Wellington	23.5	13,336.70	6,668.35
Wentworth	53.0	72,049.98	36,024.99
York	261.7	477,047.12	259,142.74
TOTALS	882.0	$1,100,907.73	$574,409.70

ORGANIZED TOWNSHIP ROADS

For the year 1946 the government subsidized road expenditures in 568 townships, 9 improvement districts, 2 provincial parks and 22 Indian Reserves.

Expenditure on these roads in 1946 was as follows:

	Construction	Maintenance	Total
Roads	$3,055,095.42	$4,752,875.56	$7,807,970.98
Bridges (ordinary rate)	34,970.25	87,332.50	122,302.75
Bridges (special rate)	466,145.29	45,296.52	511,441.81
Winter Control		924,939.05	924,939.05
Total Approved Expenditure	$3,556,210.96	$5,810,443.63	$9,366,654.59
Provincial Subsidy			$5,131,432.11

Less 1946-47 subsidy paid in 1945-46 fiscal year	$ 3,387.53
Subsidies paid in 1946-47 fiscal year	5,128,044.58

Construction Work

The work on which the above expenditure was made included the following:

Gravel or Stone	2,124.75	Miles
Low Cost Bituminous Surfaces	22.55	"
Mixed Macadam and Asphaltic Concrete	4.90	"
TOTAL	2,152.20	"
Bridges over 10-Foot Span	137	"
Pipe and Tile Culverts	1,648	"
Other Culverts	586	"

Maintenance Work

Bituminous Surface-Treatment	83	Miles
Dust-Prevention Treatment (Oil)	102	"
Dust-Prevention Treatment (Calcium)	980	"
Clay-Gravel Stabilization (Calcium and Salt)	37	"
GRAVEL AND CRUSHED STONE RESURFACING:		
(a) Pitrun Gravel Applied	867,360	Cu. Yds.
(b) Crushed Gravel Applied	1,490,860	" "
(c) Crushed Stone Applied	271,089	" "
SNOW REMOVAL:		
(a) Mileage of Road kept open with Mechanical Equipment	26,333	Miles
(b) Snow Fence Erected	1,450	"
Weed-Spraying	1,585	"

BRIDGE SURVEY

During the later war years an extensive survey was made to determine the condition of all bridges and culverts on county and township roads, so that the probable cost of replacing and repairing damaged structures in the post-war period would be known. This survey was a major project by our District Municipal Engineers and was completed, with the assistance of the county and township road superintendents, in time for this report.

The location, size, type and condition of 32,920 structures was tabulated and shown on county maps. 14,373 of these were of ten-foot span or larger and 18,547 were of smaller spans.

Of the larger structures, 8,999 were found to be adequate for present day traffic, but 5,374 will require replacement or extensive repairs in the next ten years or so. Of the lesser structures, 7,426 are now adequate, but 11,121 should have attention in the post-war period.

The estimated cost at present prices for the necessary rebuilding of structures on county and township roads is $28,000,000. A 1947 amendment to The Highway Improvement Act whereby bridge and culvert expenditures will be eligible for an 80% rate of subsidy will be helpful, especially to municipalities where large outlays for bridge construction work is required.

INTERIM PAYMENTS

For the third successive year, all the organized counties and townships were allowed interim subsidy payments during 1946. All the counties and 518 township units applied. The total in subsidies thus paid out before the end of the calendar year was $4,237,897.08. This was 47.6% of the final subsidy total for the year: 46.3% for the counties and 48.5% for the townships.

EXPENDITURES ON WINTER CONTROLS

A total of $1,601,289.63 was spent by the organized municipalities in the calendar year 1946 for the control of winter conditions on roads. This includes expenditures for snow clearing, sanding, purchase and erection of snow fence, etc., and represents 9.6% of all approved expenditures on roads by these municipalities. In 1945 the expenditure for winter controls was $2,785,491.38, or 20.8% of the total, and in 1944 the municipalities spent $1,039,381.84 on this service, being 9.5% of the total expenditure.

SUMMARY OF ACTIVITIES BY COUNTIES AND ORGANIZED TOWNSHIPS 1946

District No. 1

Essex County applied a 6-inch cover of stabilized material on about one mile of County Road No. 6, using 3,000 tons of crushed stone. Machinery purchased included a motor grader, large truck, a mixer and two snow plows, at a cost of approximately $27,295.

Kent County covered 8 miles of road surface with an 8-inch matt of stabilized material in preparation for a 3-inch bituminous top. 8 miles of 3-inch hot plant-mixed bituminous pavement was laid as new work and 10 miles of older pavement was given a second layer of similar material 3 inches thick. Two heavy trucks, a planer blade and a power mower with cutting bar were purchased at a cost of approximately $16,553.

Lambton County laid 5 miles of 3-inch bituminous hot plant-mixed pavement, and 0.6 miles was surfaced with crushed stone. A trailer-distributor was purchased for patching and repairing bituminous pavements.

No notable features of construction are reported for township roads in District No. 1, but a great deal of maintenance was carried out, including repairs to 89 bridges and 185 culverts, erection of 204 miles of snow fence, spraying with weed killer of 490 miles and brush and weed cutting of 2,252 miles. For resurfacing of township roads, 125,249 cu. yds. of pit-run gravel, 28,328 cu. yds. of crushed gravel and 60,617 cu. yds. of crushed stone were used.

District No. 2

Elgin County purchased a hangar from the War Assets Corporation. This building was 225 feet by 128 feet, and should serve the county as a machine shop and storage shed for many years to come. A new county car, a 1¾-ton truck and a snow plow and wing were also purchased.

Middlesex County also purchased a surplus hangar to be used as a garage and storage shed. Two large trucks complete with snow plows and wings, a county car and a bituminous kettle were purchased during the year.

Norfolk County purchased a 250-H.P. Diesel snow fighter with V-type plow, two wings and central blade. This unit is to be used for snow plowing and road-mix mulch and is said to be the largest of its type in Canada. 2.65 miles of road-mix mulch, 6.45 miles of road-mix mulch patching and 17 miles of bituminous surface-treatment were carried out during the year.

Oxford County carried out surface treatment on 12½ miles of pavement, and 8.3 miles of mixed macadam were laid during the season. A 5-yard hydraulic scraper, a heavy-duty motor grader with plow and wing and an electric welding machine were purchased. The proposed division of the county into four sections with a machine shed and repair shop in each section was started and will probably be completed during 1947.

General maintenance was carried out in all townships in the District. A Township Road Superintendents' Association was formed in Elgin County, and to date has been highly successful. It is said to be the first of its kind in the province. 11 trucks, 12 snow plows, 7 motor graders and a power mower were purchased during the year by various townships in the District.

District No. 3

Huron County laid 15 miles of new road-mix. Waterloo County did extensive heavy grading and Wellington County started construction on the Jackson bridge project, completing the stream diversion and heavy grading on the north approach, with a considerable programme of surface treatment.

68 miles of township roads were assumed by the counties, 45 acres of land purchased for snow control purposes and approximately $80,000 spent on new machinery.

The townships in this district applied 330,000 cu. yds. of gravel, bought a considerable amount of machinery and started work on four equipment sheds. Wellesley township built the Kingwood bridge and revised the alignment of the approaches.

District No. 4

Brant County constructed 20 miles of mulch pavement. One chip spreader, one snow plow and wing, one tractor and a bituminous distributor were purchased, as well as three acres of land, for gravel purposes, in the Township of Brantford.

Haldimand County constructed four concrete culverts and one concrete bridge. 5.1 miles of macadam base was constructed and surface treated. Purchases included four trucks, a bituminous distributor, and 2.27 acres of land for new road alignment.

Lincoln County installed 70 pipe culverts and constructed one concrete bridge with twin skew spans of 60 feet each. 7.5 miles of water-bound macadam was constructed and 58 miles of black-top road was surface treated with bituminous materials. A storage shed of tile blocks and steel, 42 feet by 64 feet, was built. Three acres of land for road widening purposes, one Diesel 10-ton roller and two tractor mowers were purchased.

Welland County constructed 1.7 miles of asphaltic concrete, and surface-treated 20 miles of black-top road with bituminous materials. One snow plow, two dump-trucks, and a sedan for the use of the county engineer, were purchased.

Wentworth County constructed 2.3 miles of retread, surface-treated 15 miles of black-top road with bituminous materials and erected 1,000 feet of guide rail. Purchases of 17 acres of land for road widening purposes, one tractor and bullgrader, two snow plows and two dump trucks were made.

Townships in this district installed 132 pipe culverts, constructed 24 other culverts and 5 concrete bridges. 12.5 miles of road was surfaced with a light bituminous surface and 3.2 miles with asphaltic concrete. The townships purchased 5.8 acres of land, for road widening, 16.6 acres for gravel purposes and 8 acres for use as stone quarries. Other purchases were 16 snow plows, 10 dump-trucks, two pick-up trucks, two Artillery tractors, four power graders, three tractor mowers, one tractor and bullgrader, one compressor and one lugger-loader with buckets.

District No. 5

Bruce County carried out hill cutting on approximately six miles of county roads. 5½ miles of mulch pavement was laid between Holyrood and Kinloss. 25.5 acres of additional right-of-way adjoining county highways was purchased, on which it is proposed to plant permanent hedges on a 66-foot strip to facilitate snow control. New equipment acquired during the year consisted of one tractor equipped with bulldozer, one large float, one Diesel-powered shovel, two heavy trucks and a stone chip spreader.

Dufferin County reconstructed 5.5 miles of grade, installed two metal arch culverts and extended six others. The new machinery shed at Shelburne was brought near to completion. Marginal strips 4 rods wide along roadsides, amounting to 67 acres, were purchased for the purpose of tree planting. Delivery was taken of one snow plow wing, with controls, one mechanical chip spreader and one 8-yard scraper.

Grey County carried out 11.5 miles of grade reconstruction, and constructed 1.9 miles of bituminous mulch pavement in the vicinity of Desboro. Two small reinforced-concrete bridges were constructed and 47 metal pipe culverts installed. Delivery was taken of one snow plow and wing, one car for the county engineer, one forced-air pump for the machine shop, a dump truck and a tar kettle.

Work in the townships was confined largely to maintenance, major grading jobs being carried out in Holland and Culross Townships. Throughout the District, 28.4 miles of grade was reconstructed, 170 pipe culverts installed and 16 new bridges constructed.

District No. 6

Halton County constructed 1.25 miles of pre-mix pavement on county roads Nos. 9 and 21, consolidated to 2½ inches. A bridge, 14 feet in span, was constructed at Omagh on county road No. 6, Trafalgar Township.

Peel County constructed two bridges of 18-foot span, 52 feet long; and one bridge, 35-foot span, 56 feet long. 1.5 miles of mulch pavement was laid on highway No. 5. Two new weed spraying machines were purchased and 255 gallons of 2-4D chemical was used. Shortage of labour and materials was reflected in the failure of any contractor to bid on one other bridge which the county wished to construct.

Simcoe County work was confined largely to maintenance. A new large truck was added to the snow plowing equipment and all roads were well maintained during the winter of 1945-46.

York County laid ½ mile of concrete pavement on Blythwood Road, from the city limit to Bayview Avenue. Construction of a new bridge over the Rouge River south of Markham was started. Two trucks, one sedan, 8 sand-spreaders, one 600-gallon distributor, three maintenance kettles, a light roller and an air compressor were added to the equipment.

The Townships in District No. 6 constructed five concrete bridges and one steel and concrete bridge. 252 pipe culverts and 20 other culverts were installed. The principal maintenance item was, as usual, gravelling: 49,923 cu. yds. of pit run and 252,888 cu. yds. of crushed gravel being used. Three large power maintainers equipped with snow plows, three tractors, dozers and snow plows, two weed sprayers, four trucks and two sanders were purchased.

District No. 7

The counties in this District paved 12 miles of gravel surface with road-mix mulch, installed 107 new culverts and constructed four new bridges to approved design. Steel superstructure for a 90-foot clear-span bridge was completed on new location of county road near Washago. 13,677 cu. yds. of pit-run gravel, 49,810 cu. yds. of crushed gravel and 11,205 tons of crushed stone were applied on newly constructed roads, as well as resurfacing material for existing roads. A mixer purchased by Northumberland and Durham Counties was used to good advantage to eliminate high shoulders and in stabilization work. Hastings-Campbellford road to be constructed by contract to approved standard, was not fully completed. More concentrated efforts are being made by county engineers on the widening and improvement of drainage on main travelled roads, and more control is being exercised on the elimination of weeds and brush by cutting and spraying.

In addition to general maintenance, the townships constructed 77 miles of new grade to improved standard. 8 new bridges of approved design were built and 85 existing bridges repaired, 275 new culverts installed and 317 culverts repaired. Nine new units of equipment, delivered to municipalities, were used to good advantage. Several new garages and storage buildings were erected to provide proper accommodation for township-owned equipment.

District No. 8

Frontenac County laid 3.6 miles of mixed macadam pavement and did 7.2 miles of grading, including 3,913 cu. yds. of rock cut. One heavy Diesel power-unit was purchased.

Hastings County's main construction work consisted of the widening and grading of 3.6 miles of the Madoc Road, preparing for paving in 1947. New units of equipment purchased were one 3-ton dump truck and one maintenance tar kettle.

Leeds and Grenville did not construct any pavement in 1946, but 9.6 miles were cleared and grubbed and 7.5 miles graded in preparation for paving next year. One half-ton delivery truck and one large power grader were purchased.

Lennox and Addington County re-shaped and covered with bituminous material two miles of old surface-treated water-bound macadam. Plans were made for the Napanee Bridge to be built in 1947. Purchases included a tractor, with mower and shovel, a half-ton pick-up truck, 3-ton and 4.5-ton trucks and trailer platform.

Main features of the township work programme were three miles of new grade in Hastings County. Sheffield Township constructed a road around a swamp, eliminating a bridge known as Floating Bridge. Elizabethtown Township constructed 1.6 miles of retread pavement. A new steel ferry to Howe Island was put into operation. New equipment purchased included 10 trucks, 11 snow plows and wings, two leaning-wheel graders, one power grader and one tractor-drawn grader.

District No. 9

In the north half of the District, Prescott and Russell have widened considerable mileage, in some cases receiving the extra width for the cost of the fencing and, in others, gratis. The co-operation from the ratepayers is chiefly due to the fact that they want all-year use of the roads, and appreciate the fact that a wide road usually lowers the cost of snow plow operations and mowing. Some sections of black-top pavement which broke up due to frosting conditions were put back to gravel road. Due to the scarcity of suitable gravel, the southern counties have reopened some of their old stone quarries, which have not been used for quite a number of years. Equipment purchases included one truck, two snow plows, one automobile, one 25-ton float, one crusher and screen and one underbody blade.

The townships in the district carried out more snow plowing on their roads than in other years, and widened some narrow stretches, in many cases to Department standard.

District No. 10

Carleton County showed a marked increase in the rehabilitation of old surfaces and the improvement of existing grades. Bridge replacements scheduled were only partially carried out owing to lack of material, which permitted construction of only two small bridges. Some 13 miles of surfacing was done, four miles on the Ottawa Suburban Roads being the largest single piece of work in the County.

Increased expenditures in Lanark County resulted in improved maintenance and also permitted some surfacing work. About four miles of gravel mulch was laid, while gravel resurfacing was increased in volume. Plans for a new bridge in Lanark Village were completed but no contract called due to material shortages. On the Smiths Falls-Lanark County Suburban area rehabilitation on the Merrickville road was continued and decided grade improvement is now showing, and surfacing is following closely.

In Renfrew County, maintenance was the principal activity of the year. Crushed gravel resurfacing was extended and about seven miles of bituminous surface-treating on water-bound macadam was also undertaken. In January, Mr. W. J. Moore, for 25 years Engineer-Superintendent of County Roads, was appointed a Commissioner of the Ontario Municipal Board and his place as County Engineer-Superintendent was taken by Mr. W. B. McMullen, City Engineer of Sudbury.

Maintenance was the principal feature of township work. Replacement of old bridges with modern structures was held up by lack of material, only two being finished, though tenders were called for five. Desire for machinery is keen throughout the district. The use of dust-laying and binding materials is increasing.

District No. 11

The townships in this district re-graded 23 miles of existing road and in these grades 63 pipe culverts, 33 wood culverts and one concrete culvert were placed. Three wooden bridges were rebuilt, while 68 bridges and 383 culverts were repaired. Materials used on roads include 78,533 cu. yds. of pit run gravel, 9,625 cu. yds. of crushed gravel and 2,555 cu. yds. of crushed rock. In Peterborough County, the road leading from Buckhorn to Gannons Narrows was designated as a development road and construction work was started. In Carlow Township a steel and concrete bridge, having a clear span of 140 feet was constructed over the York river. Machinery purchased included four trucks, four snow plows and wings, a tractor and trailbuilder and three leaning-wheel graders.

District No. 12

Maintenance work on Victoria County roads was efficiently carried out and some widening of roads and cuts were made. Two sections of county road were assumed as development roads, work being started late in the fall. A 3-ton dump truck was purchased.

Work on township roads was confined largely to maintenance, a considerable amount of grading being carried out by power maintainers rented from the Department of Highways. Two roads in the Provisional County of Haliburton and one road in the District of Muskoka were assumed as development roads, work being started late in the fall on all three. Major items of machinery purchases included ten trucks, six snow plows and wings and a large power maintainer. The demand to have roads open for winter traffic is making it necessary for townships to purchase trucks and snow plows.

District No. 13

All townships in this district are getting back to the improvement of their roads after a long maintenance period. Considerable mileage of road was widened to make winter plowing with mechanical equipment possible. Power grading with Department equipment was put into effect in several townships and the results were gratifying. To take care of new tourist locations and ever-increasing summer traffic, several miles of new road were constructed. Three 3-ton trucks with plows, one tractor with plow and three snow plows were purchased during the year.

District No. 14

Only minor items of construction were undertaken in the district during 1946. One new bridge, 15-foot span, was built in the Township of Mattawa. Local timber treated with wood preservative was used and the structure was designed for 15-ton loading. Maintenance was carried out by all townships, although shortage of labour and material handicapped most of them. Three trucks, two equipped with snow plows and wings, were purchased during the year.

District No. 15

A start was made, in spite of inadequate labour, materials and equipment, to pick up the back-log of deferred improvement. Some twenty miles of road were reconstructed to standard cross-section and small structures laid in preparation for extension of this operation in 1947. The use of crushed gravel for resurfacing is still a problem of supply, only three out of six contracts let were partially completed, owing to failure of contractors' equipment.

District No. 16

Due to difficulties in obtaining supplies, such as timber, spikes, etc., very little bridge repair work was carried out by the four organized municipalities in this district, although a considerable amount is required as soon as these materials become available. During the year, ground work was done for the extension of Glackmeyer Municipality to cover portions of Clute, Leitch and Blount townships. This enlarged municipality will come into effect January 1st, 1947. A 5-ton truck with plow was purchased by the Municipality of Glackmeyer.

District No. 17

The bulk of the work carried out by townships was ordinary maintenance. Rayside township did three miles of re-shaping and re-gravelling, as well as straightening out a bad corner on a road which has since been taken over as a development road. 1.15 miles of old concrete surface and 3.25 miles of gravel surface was mulched. One tractor and angle dozer was purchased.

District No. 18

Township work in this district consisted mainly of ordinary maintenance. Two small wooden bridges of 10-foot span were built to replace existing structures and 17 miles of existing roads were re-shaped, 6,571 cu. yds. of gravel being applied to the new grades. The townships purchased 3,500 feet of snow fence, and eleven out of the fourteen townships carried out snow removal on some of their roads, mostly by the use of Department equipment on an hourly rental basis.

District No. 19

Very little new construction work was carried on by the organized townships in the district of Thunder Bay, although a number of townships widened, re-graded and ditched a number of their most important roads. The township of Neebing, working in conjunction with the city of Fort William, paved a section of road which is the boundary line. One bridge was replaced in Blake township and a number of other bridges repaired. Two of the townships purchased new power maintainers, this equipment is used for snow plowing their roads during the winter months and for grading and widening the roads during the summer. In addition to the two maintainers, one V-type plow and wing was purchased.

District No. 20

The Municipality of Jaffray and Melick placed a considerable amount of fill at the site of the bridge on the Anderson road that was replaced last year. In addition to this the Belair bridge was re-decked and St. Mary's Indian School bridge was completely rebuilt. The Municipality of Machin re-decked two bridges. One tractor and a trailbuilder were purchased during the year.

District No. 21

Construction consisted of clearing and grubbing 13 acres, grading 2.12 miles of road, installing 36 culverts and erecting 30 rods of fencing. 108 cu. yds. of gravel was placed on .1 mile of new grade and one frame garage was built. Maintenance included the repair of 40 bridges and 178 culverts, weed spraying of 6 miles, maintaining of 434 miles of road by dragging and applying 22,399 cu. yds. of gravel and necessary ditching and snow removal. One large grader, two snow plows and one weed sprayer and pump were purchased as new equipment.

DEVELOPMENT ROADS

There are throughout the Province a number of roads which serve to promote and maintain settlement and development. These roads require special treatment which the local administrations are not financially able to provide. This need has long been recognized and in 1939 a new Part [Part V (A)] was added to The Highway Improvement Act to supply it. It was found, however, that the provisions of this Part did not meet the situation and could not be applied in practice. Accordingly the Act was amended in 1946. Part V (A) was repealed and a new Part [Part IV (B)] enacted. This new Part clarifies the status of development roads, and provides that they may be designated by the Minister. Where a development road so designated is under the jurisdiction of any municipality, the Part provides that the Minister may enter into an agreement with the corporation of the municipality for the construction, improvement, maintenance or repair of the road and may direct payment out of the Highway Improvement Fund of such proportion of the cost as he may deem requisite.

In 1946 the following roads were designated as development roads:

Development Road No.	Description	Length Miles	Jurisdiction	County or District
1	Petawawa Point Road. From K. Hwy. No. 17 at Petawawa to Petawawa Pt.	1.90	Township of Petawawa	Co. Renfrew
2	Burnstown Road. From K. Hwy. No. 17 to Burnstown........................	4.75	Township of McNab	Co. Renfrew
3	(1) Powles Cut Off., Co. Road No. 20 Fenelon Twp. From Powles Corners to K. Hwy. No. 35................	2.70	County of Victoria	Co. Victoria
	(2) Burnt River Road, Co. Road No. 13 Verulam. From Co. Rd. No. 8 to the North Bdy. Verulam Twp..........	4.40	County of Victoria	Co. Victoria
4	Buckhorn Rd. From the Village of Gooderham to the Peterborough County Bdy...................................	4.50	Township of Glamorgan	County Haliburton
5	Lochlin-Gelert Road. From the Bobcaygeon Road to the Dysart-Snowdon Twp. Bdy...........................	15.00	Township of Snowdon	District Muskoka
6	Clear Lake Road. From the westerly bdy. of Draper Twp. to the easterly bdy. of Oakley Twp......................	22.00	Townships of Draper and Oakley	District Muskoka
7	Chelmsford-Blezard Valley Road. From the Sudbury-Capreol Road to Chelmsford..............................	11.00	Townships of Balfour, Rayside and Blezard	District Sudbury
8	Eagle Lake Road. From the north bdy. of the Village of South River to the East bdy. of Lount Twp..................	9.00	Township of Machar	District Parry Sound
9	Road from Buckhorn to Gannon's Narrows in the Township of Harvey.......	12.00	Township of Harvey	County Peterboro
10	Nepheline Mine Road. From Clarina in Dummer Twp. to the Nepheline Mine in Methuen Twp......................	8.20	Townships of Dummer Burleigh and Anstruther Belmont and Methuen	County Peterboro
	Total Miles Designated.....	95.45		

A bituminous mulch surface was completed on the Petawawa Point Road (Development Road No. 1) and the designation of this road as a development road was revoked on July 29th, 1946. Work was started but not completed in 1946 on all the other designated development roads.

Expenditures on these roads in the fiscal year ending March 31st, 1947, were as follows:

Development Road No.	Project No.	Expenditure
1	6-3331	$ 11,957.70
2	6-3333	10,375.91
3	46-40	97 135.19
4	6-222	4,601.87
5	6-223	3,848.30
6	6-221	3,560.09
7	6-226	2,559.69
8	6-225	10,245.18
9	6-241	5,000.00
10	6-434	3,766.30
TOTAL		$153,050.23

ROADS IN TERRITORY WITHOUT MUNICIPAL ORGANIZATION

In 1944 the Branch took over the administration of expenditures on roads in territory without municipal organization. It was decided that the improvement and maintenance of these roads could be carried out most efficiently and economically by local jurisdictions or groups of interested persons assisted by grants-in-aid and at the 1944 session of the Legislature a new Part [Part IV (A)] was added to the Highway Improvement Act to provide the necessary legislative authority for the payment of such grants. At the same time it was decided to adopt the policy of encouraging the establishment of the following forms of statutory local organization, namely, the Township Municipality, the Improvement District and the Statute Labour Board. This policy has been pursued consistently for three years with gratifying results.

The townships of Stock, Taylor, Carr, Beatty, Bond, Currie, Bowman and Hislop were combined to form the Township Municipality of Black River; the townships of Powell, Cairo, Yarrow and Kimberly were combined to form the Township Municipality of Matachewan; the townships of McCart, Teefy, Rickard, Dundonald, Clergue, Walker and Wilkie were annexed to the township of Calvert to form the new Township Municipality of Calvert; and parts of the townships of Blount, Leitch and Clute were annexed to the township of Glackmeyer to form the new Township Municipality of Glackmeyer.

The Township Municipality of Cameron was re-organized as the Improvement District of Cameron and other Improvement Districts were erected as follows:

Atikokan comprising the townships of Freeborn and Schwenger and four adjoining unnamed townships; **Beardmore** comprising the townships of Summers and Eva; **Kingham** comprising the townships of Cook, Black, Melba and the north half of Benoit; **Sioux Narrows** comprising the townships of MacGeorge and Willingdon; **Gauthier, Kingsford, Mountjoy** and **McGarry,** each being a complete surveyed township having the same name; and **Red Rock** comprising the south half of the township of Nipigon.

In addition to these municipal organizations, forty-three new statute labour boards were elected under the Statute Labour Act.

Local initiative and co-operation are the principles underlying the granting of aid on roads in territory without municipal organization. Where the local residents adopt statute labour organization or, when that is not possible, where they perform voluntary work or make cash contributions, the Department expends at least an equivalent amount on the roads in the locality. Where statute labour organization is formed the Department spends an additional amount equal to the potential statute labour assessment on crown lots abutting on the roads and assumes eighty per cent. of the cost of bridges.

In the more sparsely settled areas the Department assumes one hundred per cent. of the cost of bridges.

A well defined but flexible policy has been laid down by which aid is granted in inverse proportion to the ability of the settlers to deal with the situation, and a system has been developed by which the expenditures are controlled and balanced by means of work orders issued from head office.

Expenditure on these roads in the fiscal year ending March 31st, 1947, was as follows:

Municipal District	Value of Statute Labour or Other Work Performed	Direct Expenditure on Roads By Department	Total Value of Work Performed	Percentage of Aid by Department
No. 11 Nipissing	$ 699.20	$ 1,304.61	$ 2,003.81	65.1
No. 12 Muskoka	2,650.85	2,559.12	5,209.97	49.1
No. 13 Parry Sound	25,962.88	31,586.23	57,549.11	54.9
No. 14 Nipissing	12,937.40	35,105.93	48,043.33	73.1
No. 15 Temiskaming and Cochrane South	21,916.19	117,012.97	138.929.16	84.2
No. 16 Cochrane North	18,885.94	60,701.96	79,587.90	76.3
No. 17 Sudbury	25,823.13	31,158.73	56,981.86	54.7
No. 18 Algoma	19,167.10	25,137.85	44,304.95	56.7
No. 19 Thunder Bay	17,887.14	34,315.20	52,202.34	65.7
No. 20 Kenora	22,281.71	33,103.86	55,385.57	59.8
No. 21 Rainy River	5,368.43	6,524.50	11,892.93	54.9
	$173,579.97	$378,510.96	$552,090.93	68.6
General Expense, etc.		5,841.66	5,841.66	
	$173,579.97	$384,352.62	$557,932.59	68.9
Materials in Stock		7,500.30*	7,500.30	
TOTALS	$173,579.97	$391,852.92	$565,432.89	

*Inventories, March 31st, 1947	$7,978.00
*Inventories, March 31st, 1946	477.70
	$7,500.30

The work on which the above expenditure was made includes the following:

Construction

Grade Construction	72.2 Miles
Gravel or Stone Surfacing	161.5 "
Bridges over 10-Foot Span	26 "
Pipe and Tile Culverts	141 "
Other Culverts	355 "

Maintenance

Pit Gravel Applied	123,528 Cu. Yds.
Crushed Gravel or Stone Applied	2,933 " "
Clay or Sand Applied	18,244 " "

APPENDICES

Nos. 1 to 10

APPENDIX No. 1

DEPARTMENT EXPENDITURES ON KING'S HIGHWAYS, DEVELOPMENT ROADS, ROADS IN UNINCORPORATED TOWNSHIPS, ETC., BY COUNTIES AND DISTRICTS

April 1st, 1946, to March 31st, 1947

County	Construction	Maintenance	Total
BRANT:—			
Highway No. 2	$ 998.13	$ 124,505.65	$ 125,503.78
" No. 5		14,932.78	14,932.78
" No. 24	15,761.35	23,349.29	39,110.64
" No. 24A		7,415.77	7,415.77
" No. 53	8.80	28,899.77	28,908.57
" No. 54	194.25	25,677.27	25,871.52
" No. 99	46.96	963.25	1,010.21
Connecting Link, Town of Paris		218.00	218.00
	$ 17,009.49	$ 225,961.78	$ 242,971.27
BRUCE:—			
Highway No. 4	$ 191,780.60	$ 67,026.90	$ 258,807.50
" No. 6	89,053.30	131,456.76	220,510.06
" No. 9		34,259.98	34,259.98
" No. 21	300,945.04	155,630.58	456,575.62
" No. 86		14,962.42	14,962.42
Connecting Link, Town of Walkerton		699.05	699.05
	$ 581,778.94	$ 404,035.69	$ 985,814.63
CARLETON:—			
Highway No. 15	$ 1,431.06	$ 34,236.74	$ 35,667.80
" No. 16	2,077.64	123,413.77	125,491.41
" No. 17	3,372.77	77,387.44	80,760.21
" No. 29	131.79	2,633.77	2,765.56
" No. 31	46,144.09	53,566.52	99,710.61
" No. 44	263.01	14,050.86	14,313.87
Ottawa By-pass	120.82		120.82
	$ 53,541.18	$ 305,289.10	$ 358,830.28
DUFFERIN:—			
Highway No. 9	$ 151.28	$ 38,387.31	$ 38,538.59
" No. 10		23,052.91	23,052.91
" No. 24		26,641.78	26,641.78
" No. 89		16,654.86	16,654.86
Connecting Link, Town of Orangeville		721.05	721.05
	$ 151.28	$ 105,457.91	$ 105,609.19
ELGIN:—			
Highway No. 3	$ 2,475.22	$ 41,579.79	$ 44,055.01
" No. 4	1,034.38	14,618.52	15,652.90
" No. 19	4,818.87	8,191.66	13,010.53
" No. 73	1,148.22	21,077.28	22,225.50
" No. 74	1,086.65	12,754.05	13,840.70
" No. 75		2,945,43	2,945.43
" No. 76		1,852.54	1,852.54
" No. 77		4,805.34	4,805.34
St. Thomas East Entrance		519.24	519.24
	$ 10,563.34	$ 108,343.85	$ 118,907.19

County	Construction	Maintenance	Total
ESSEX:—			
Highway No. 2	$	$ 33,223.24	$ 33,223.24
" No. 2B		341.49	341.49
" No. 3	397.95	173,317.65	173,715.60
" No. 3B		2,872.03	2,872.03
" No. 18	727.53	16,278.57	17,006.10
" No. 18A	136.59	17,268.23	17,404.82
" No. 18B	7.40	15,962.88	15,970.28
" No. 39		7,022.16	7,022.16
" No. 98		12,902.06	12,902.06
" No. 98A		497.91	497.91
Pelee Island		14,130.42	14,130.42
Proposed Four-Lane Highway	171.99		171.99
Connecting Link, Town of Essex		75.09	75.09
Connecting Link, Town of Leamington		100.26	100.26
Connecting Link, Town of Harrow		5.38	5.38
Connecting Link, Town of Kingsville	21,413.88	73.37	21,487.25
Connecting Link, Town of LaSalle		119.39	119.39
Connecting Link, Town of Tecumseh		71.23	71.23
	$ 22,855.34	$ 294,261.36	$ 317,116.70
FRONTENAC:—			
Highway No. 2	$ 811.28	$ 46,963.98	$ 47,775.26
" No. 7	52.05	37,867.68	37,919.73
" No. 15		24,005.57	24,005.57
" No. 33	356.23	5,086.27	5,442.50
" No. 38	155,506.01	82,649.67	238,155.68
" No. 41		30,550.38	30,550.38
" No. 95	10,329.83	269,780.78	280,110.61
" No. 96		15,589.13	15,589.13
Proposed Four-Lane Highway, North of Kingston Survey	546.70		546.70
Controlled Access Highway Survey	234.67		234.67
Development Roads:—			
Highway No. 7—Clarendon		8,228.70	8,228.70
" No. 41—Plevna		4,938.20	4,938.20
	$ 167,836.77	$ 525,660.36	$ 693,497.13
GREY:—			
Highway No. 4	$ 121.30	$ 34,631.78	$ 34,753.08
" No. 6	89,031.70	51,959.77	140,991.47
" No. 10	.79	29,792.98	29,793.77
" No. 21	267.57	12,002.02	12,269.59
" No. 24		7,389.86	7,389.86
" No. 26	252.71	29,030.97	29,283.68
Connecting Link, Town of Durham		2,248.42	2,248.42
Connecting Link, Town of Markdale		476.10	476.10
Connecting Link, Village of Chatsworth		200.00	200.00
Connecting Link, Village of Flesherton		491.97	491.97
	$ 89,674.07	$ 168,223.87	$ 257,897.94
HALDIMAND:—			
Highway No. 3	$ 301.87	$ 37,148.02	$ 37,449.89
" No. 6	80.72	36,371.51	36,452.23
" No. 54	357.59	37,436.22	37,793.81
" No. 56	318.19	4,032.20	4,350.39
Connecting Link, Town of Dunnville		91.94	91.94
Connecting Link, Village of Hagersville		241.24	241.24
	$ 1,058.37	$ 115,321.13	$ 116,379.50

County	Construction	Maintenance	Total
HALTON:—			
Highway No. 2	$ 871.56	$ 27,542.35	$ 28,413.91
" No. 5	159,583.60	64,267.69	223,851.29
" No. 7	....	24,341.90	24,341.90
" No. 25	2,074.45	28,303.81	30,378.26
Queen Elizabeth Way	10,366.04	348,852.85	359,218.89
Proposed Divided Highway	109.36	....	109.36
Connecting Link, Town of Burlington	....	1,563.86	1,563.86
Connecting Link, Town of Milton	....	1,299.48	1,299.48
Connecting Link, Town of Georgetown	....	5,475.05	5,475.05
Connecting Link, Town of Acton	....	152.38	152.38
	$ 173,005.01	$ 501,799.37	$ 674,804.38
HASTINGS:—			
" No. 2	$ 265.84	$ 162,948.23	$ 163,214.07
" No. 7	....	48,495.63	48,495.63
" No. 14	11.58	29,273.47	29,285.05
" No. 28	16.05	22,148.63	22,164.68
" No. 33	....	6,556.63	6,556.63
" No. 37	66,664.19	59,492.79	126,156.98
" No. 62	148,406.84	172,454.11	320,860.95
Preliminary Surveys	96.65	....	96.65
Bancroft-Renfrew Survey	18.37	....	18.37
Development Roads:—			
Bancroft-Herman	254.07	3,135.41	3,389.48
Maynooth-Hastings Boundary	....	7,549.49	7,549.49
Bancroft-Gooderham	14,999.35	33,918.03	48,917.38
Connecting Link, Village of Madoc	....	2,547.03	2,547.03
Connecting Link, Village of Bancroft	....	598.60	598.60
	$ 230,732.94	$ 549,118.05	$ 779,850.99
HURON:—			
Highway No. 4	$ 409.92	$ 99,360.10	$ 99,770.02
" No. 8	845.39	25,979.15	26,824.54
" No. 9	....	1,031.81	1,031.81
" No. 21	50,186.12	93,224.96	143,411.08
" No. 23	5.20	5,844.78	5,849.98
" No. 81	2.35	5,856.79	5,859.14
" No. 83	1,448.02	33,538.92	34,986.94
" No. 84	144.98	15,257.77	15,402.75
" No. 86	106,388.01	38,261.28	144,649.29
" No. 87	110,642.17	15,884.59	126,526.76
Connecting Link, Town of Wingham	....	2,098.47	2,098.47
Connecting Link, Town of Clinton	....	144.75	144.75
Connecting Link, Town of Goderich	....	22.85	22.85
Connecting Link, Village of Exeter	....	343.35	343.35
	$ 270,072.16	$ 336,849.57	$ 606,921.73
KENT:—			
Highway No. 2	$ 1,178.74	$ 42,621.76	$ 43,800.50
" No. 3	3,280,09	24,257.61	27,537.70
" No. 21	948.22	33,148.99	34,097.21
" No. 40	812.73	11,818.86	12,631.59
" No. 78	1,230.10	10,987.06	12,217.16
" No. 79	....	1,641.52	1,641.52
" No. 98	239,395.05	17,078.75	256.473.80
Connecting Link, Town of Blenheim	5,646.23	8.26	5,654.49
Connecting Link, Town of Dresden	....	122.76	122.76
Connecting Link, Town of Bothwell	....	70.52	70.52
	$ 252,491.16	$ 141,756.09	$ 394,247.25

County	Construction	Maintenance	Total
LAMBTON:—			
Highway No. 7	$ 200,101.61	$ 33,681.06	$ 233,782.67
" No. 21	2,480.53	29,027.68	31,508.21
" No. 22	3,439.31	3,506.58	6,945.89
" No. 40	692.35	14,923.98	15,616.33
" No. 79	293.03	22,031.85	22,324.88
" No. 80	....	6,226.07	6,226.07
" No. 82	2,999.73	22,898.19	25,897.92
Sarnia-Strathroy Survey	297.29	....	297.29
Connecting Link, Town of Thedford	....	6.89	6.89
Connecting Link, Village of Alvinston	....	26.44	26.44
	$ 210,303.85	$ 132,328.74	$ 342,632.59
LANARK:—			
Highway No. 7	....	$ 24,535.93	$ 24,535.93
" No. 15	$ 117,775.70	37,730.40	155,506.10
" No. 29	160,540.76	24,082.02	184,622.78
" No. 44	62.80	6,021.83	6,084.63
Development Roads:—			
Darling Township Line North to Darling Township Line South	309.76	4,773.12	5,082.88
	$ 278,689.02	$ 97,143.30	$ 375,832.32
LEEDS AND GRENVILLE:—			
Highway No. 2	$ 334.38	$ 160,891.75	$ 161,226.13
" No. 15	869.51	40,179.46	41,048.97
" No. 16	695.27	10,055.25	10,750.52
" No. 29	29.41	23,035.55	23,064.96
" No. 32	....	12,397.28	12,397.28
" No. 42	118.03	39,964.25	40,082.28
River Road	423,876.09	79,699.67	503,575.76
Gananoque-Brockville Survey	232.73	....	232.73
Controlled Access Highway Survey	268.60	....	268.60
Development Roads:—			
Highway No. 15—Chaffeys Locks	....	476.81	476.81
	$ 426,424.02	$ 366,700.02	$ 793,124.04
LENNOX AND ADDINGTON:—			
Highway No. 2	....	$ 20,475.69	$ 20,475.69
" No. 7	$ 104.53	19,797.48	19,902.01
" No. 33	....	38,770.55	38,770.55
" No. 41	1,020.38	144,677.35	145,697.73
Bancroft-Renfrew Survey	18.37	....	18.37
Controlled Access Highway Survey	121.76	....	121.76
Connecting Link, Town of Napanee	....	335.70	335.70
	$ 1,265.04	$ 224,056.77	$ 225,321.81
LINCOLN:—			
Highway No. 8	$ 1,423.73	$ 47,788.17	$ 49,211.90
" No. 8A	11.81	2,218.21	2,230.02
" No. 20	1,348.38	18,960.33	20,308.71
" No. 57	....	4,924.87	4,924.87
" No. 58	427.29	9,797.81	10,225.10
Queen Elizabeth Way	11,961.36	97,710.70	109,672.06
Connecting Link, Town of Grimsby	....	193.58	193.58
	$ 15,172.57	$ 181,593.67	$ 196,766.24

County	Construction	Maintenance	Total
MIDDLESEX:—			
Highway No. 2	$ 13,085.01	$ 126,637.74	$ 139,722.75
" No. 4	3,506.36	26,481.97	29,988.33
" No. 7	671.56	20,819.54	21,491.10
" No. 22	612.61	13,748.01	14,360.62
" No. 23		10,227.93	10,227.93
" No. 73	912.65	9,965.31	10,877.96
" No. 74	1,374.66	2,851.67	4,226.33
" No. 80	2,803.42	25,421.05	28,224.47
" No. 81	4,204.04	32,141.38	36,345.42
Proposed Highway, Caradoc-Lobo-Zoma-Nissouri Survey	104.56		104.56
Division Nursey Caradoc Township		4,849.40	4,849.40
Connecting Link, Village of Lucan		45.38	45.38
	$ 27,274.87	$ 273,189.38	$ 300,464.25
NORFOLK:—			
Highway No. 3	$ 11,003.72	$ 27,431.64	$ 38,435.36
" No. 6	2.55	9,716.17	9,718.72
" No. 19		3,744.57	3,744.57
" No. 24	140.71	21,320.94	21,461.65
" No. 59	39,706.32	1,409,04	41,115.36
Connecting Link, Town of Simcoe		87.35	87.35
Long Point Park Road		135.42	135.42
	$ 50,853.30	$ 63,845.13	$ 114,698.43
NORTHUMBERLAND AND DURHAM:—			
Highway No. 2	$ 2,009.78	$ 114,107.96	$ 116,117.74
" No. 7A	555.69	45,609.01	46,164.70
" No. 28	2,210.48	74,976.86	77,187.34
" No. 30	2,875.31	260,017.13	262,892.44
" No. 33		2,097.95	2,097.95
" No. 35	627.04	47,172.21	47,799.25
" No. 45	81.02	29,891.03	29,972.05
Four-Lane Highway, Toronto-Oshawa East	13,223.34		13,223.34
Oshawa-Peterborough Survey	52.02		52.02
Cobourg-Trenton Survey	372.84		372.84
Controlled Access Highway Survey	7.42		7.42
Preliminary Surveys	91.59		91.59
Connecting Link, Village of Brighton		5,699.46	5,699.46
Connecting Link, Village of Hastings		128.09	128.09
Connecting Link, Town of Campbellford		55.00	55.00
Connecting Link, Town of Bowmanville	13,045.29	539.00	13,584.29
	$ 35,151.82	$ 580,293.70	$ 615,445.52
ONTARIO:—			
Highway No. 2	$ 1,776.99	$ 55,731.62	$ 57,508.61
" No. 3	13.36		13.36
" No. 7		22,351.37	22,351.37
" No. 7A		5,492.74	5,492.74
" No. 12	302,958.24	88,360.43	391,318.67
" No. 47	6,335.84	37,567.05	43,902.89
" No. 48	220,217.90	5,128.81	225,346.71
" No. 69	686.27	7,982.11	8,668.38
Four-Lane Highway, Toronto East	1,039,986.82	25,918.11	1,065,904.93
Centennial Road Survey	46.77		46.77
North of Kingston Road Survey	217.52		217.52
Brechin-Severn Bridge Survey	180.38		180.38
Controlled Access Highway Survey	403.80		403.80
Connecting Link, Village of Port Perry		923.16	923.16
	$1,572,823.89	$ 249,455.40	$1,822,279.29

County	Construction	Maintenance	Total
OXFORD:—			
Highway No. 2	$ 757.59	$ 76,256.35	$ 77,013.94
" No. 3		1,348.26	1,348.26
" No. 19	1,809.17	32,965.81	34,774.98
" No. 53	72.01	5,754.84	5,826.85
" No. 59	319,083.81	30,521.87	349,605.68
" No. 97	8.98	23,029.75	23,038.73
" No. 100	958.92	23,509,58	24,468.50
	$ 322,690.48	$ 193,386.46	$ 516,076.94
PEEL:—			
Highway No. 2	$ 1,386.43	$ 13,004.27	$ 14,390.70
" No. 5	7,991.94	82,960.37	90,952.31
" No. 7	5.50	23,873.34	23,878.84
" No. 9		9,877.52	9,877.52
" No. 10	2,887.61	34,984.39	37,872.00
" No. 24		14,251.24	14,251.24
" No. 27		26.94	26.94
" No. 50	220,079.04	32,231.30	252,310.34
" No. 51		3,612.52	3,612.52
Queen Elizabeth Highway	2,539.18	45,239.41	47,778.59
Connecting Link, Town of Port Credit		1,289.55	1,289.55
Connecting Link, Town of Brampton		2,031.77	2,031.77
	$ 234,889.70	$ 263,382.62	$ 498,272.32
PERTH:—			
Highway No. 7	$ 2,660.49	$ 172,137.08	$ 174,797.57
" No. 8	773.32	22,035.35	22,808.67
" No. 19	223.45	42,473.96	42,697.41
" No. 23	142,552.26	68,215.18	210,767.44
" No. 83		3,617.19	3,617.19
" No. 86		22,653.62	22,653.62
" No. 100	263.01	1,801.41	2,064.42
Connecting Link, Town of Mitchell		922.72	922.72
Connecting Link, Town of Milverton		1,305.39	1,305.39
Connecting Link, Town of Listowel		859.30	859.30
	$ 146,472 53	$ 336.021.20	$ 482,493.73
PETERBOROUGH:—			
Highway No. 7	$ 268,878.77	$ 49,911.24	$ 318,790.01
" No. 7A		449.17	449.17
" No. 28	1,128.07	62,824.80	63,952.87
" No. 30		5,134.74	5,134.74
" No. 36	101.44	28,318.85	28,420.29
" No. 45	277.39	7,232.14	7,509.53
Bobcaygeon-Kinmount Survey	269.12		269.12
Development Roads:—			
Bobcaygeon-Kinmount		3,690.23	3,690.23
Catchacoma Road	6,213.50	10,018.89	16,232.39
Loon Lake Loop		8,390.85	8,390.85
Nepheline Mine Road	3,766.30		3,766.30
Buckhorn-Gannon's Narrows	5,000.00		5,000.00
Connecting Link, Village of Lakefield		23.58	23.58
	$ 285,634.59	$ 175,994.49	$ 461.629.08
PRESCOTT AND RUSSELL:—			
Highway No. 17	$ 30,571.26	$ 94,031.63	$ 124,602.89
" No. 34	272.59	6,974.21	7,246.80
Connecting Link, Town of Eastview		43.39	43.39
	$ 30,843.85	$ 101,049.23	$ 131,893.08

County	Construction	Maintenance	Total
PRINCE EDWARD:—			
Highway No. 14	$ 342.71	$ 10,076.82	$ 10,419.53
" No. 33	132.40	23,558.85	23,691.25
" No. 41	63,899.96	21,396.81	85,296.77
Connecting Link, Town of Picton		391.24	391.24
	$ 64,375.07	$ 55,423.72	$ 119,798.79
RENFREW:—			
Highway No. 17	$ 11,729.72	$ 206,653.75	$ 218,383.47
" No. 28	52.63		52.63
" No. 29	11.82	845.53	857.35
" No. 41	9,813.08	71.892.05	81,705.13
" No. 60	714.61	89,390.77	90,105.38
" No. 62	1,348.16	37,149.15	38,497.31
Preliminary Surveys	219.50		219.50
Development Roads:—			
Burnstown-Black Donald Mine, Calabogie-Darling Township Line	1,001.07	40,825.89	41,826.96
Highway No. 17—Kelly's Corners	9,302.46	35,432.63	44,735.09
" No. 17—Burnston		10,375.91	10,375.91
Petawawa Point Road		11,957.70	11,957.70
Combermere-Burgess Mine		1,548.06	1,548.06
Combermere-Quadyille		4,574.85	4,574.85
Killaloe-Round Lake		5,232.20	5,232.20
Killaloe-Brudenell		32,045.13	32,045.13
Eganville-Cormac		4,688.03	4,688.03
Dacre-Hyndford		1,703.09	1,703.09
Dacre-Shamrock		2,013.20	2,013.20
Eganville-Kelly's Corners		4,838.82	4,838.82
Barry's Bay-Round Lake	642.56		642.56
Connecting Link, Town of Pembroke	135.61		135.61
	$ 34,971.22	$ 561,166.76	$ 596,137.98
SIMCOE—			
Highway No. 9		$ 15,291.90	$ 15,291.90
" No. 11	$ 738.24	224,510.75	225,248.99
" No. 12	81,557.28	53,834.24	135,391.52
" No. 24	111,933.75	32,659.85	144,593.60
" No. 26	3,067.25	62,397.66	65,464.91
" No. 27	54,700.58	132,808.97	187,509.55
" No. 88	25,816.24	7,038.34	32,854.58
" No. 89		25,526.27	25,526.27
" No. 90	94.83	12,444.28	12,539.11
" No. 91		10,974.40	10,974.40
" No. 92	4,124.80	20,262.95	24,387.75
" No. 93	299.80	41,579.07	41,878.87
Toronto-Barrie Highway	1,581,502.72		1,581,502.72
Barrie By-Pass	915.32		915.32
Waubaushene-Port Severn	440.81	6,556.54	6,997.35
Waubaushene-Parry Sound	104.14		104.14
Preliminary Surverys	297.69		297.69
Connecting Link, Town of Stayner		51.15	51.15
Connecting Link, Town of Orillia	22,063.35	64.40	22,127.75
Connecting Link, Town of Alliston		497.16	497.16
	$1,887,656.80	$ 646,497.93	$2,534,154.73
STORMONT, DUNDAS AND GLENGARRY:—			
Highway No. 2	$ 1,612.12	$ 237,113.54	$ 238,725.66
" No. 31	662.64	39,647.03	40,309.67
" No. 34	926.71	22,044.93	22,971.64
" No. 43	34,823.13	35,500.64	70,323.77
Controlled Access Highway Survey	122.41		122.41
	$ 38,147.01	$ 334,306.14	$ 372,453.15

County	Construction	Maintenance	Total
VICTORIA:—			
Highway No. 7	$ 53.23	$ 24,855.43	$ 24,908.66
" No. 35	25,769.68	37,376.69	63,146.37
" No. 36	633.54	60,466.99	61,100.53
" No. 46	404.59	30,599.46	31,004.05
" No. 28 Survey	39.62		39.62
Preliminary Surveys	806.42		806.42
Development Roads:—			
Highway No. 46—Sebright-Uphill-Norland	10.00	18,923.06	18,933.06
Norland-Kinmount-Bobcaygeon-Burnt River Road	42,858.40	12,329.99	55,188.39
County Road-Fenelon Falls North and Cut-Off	97,135.19		97,135.19
Connecting Link, Town of Lindsay		1,814.06	1,814.06
Connecting Link, Village of Omemee		155.50	155.50
	$ 167,710.67	$ 186,521.18	$ 354,231.85
WATERLOO:—			
Highway No. 7	$ 190.56	$ 19,090.26	$ 19,280.82
" No. 8	87.40	15,223.01	15,310.41
" No. 24	246.98	10,287.30	10,534.28
" No. 24A		7,991.49	7,991.49
" No. 85		11,204.89	11,204.89
" No. 86	2,030.11	20,404.73	22,434.84
" No. 97	194.14	12,904.84	13,098.98
Connecting Link, Town of New Hamburg		225.47	225.47
Connecting Link, Town of Hespeler		84.50	84.50
Connecting Link, City of Waterloo		609.24	609.24
	$ 2,749.19	$ 98,025.73	$ 100,774.92
WELLAND:—			
Highway No. 3	$ 657.83	$ 34,315.31	$ 34,973.14
" No. 3A	1,251.92	46,875.11	48,127.03
" No. 3C		5,355.16	5,355.16
" No. 8	181.39	2,942.46	3,123.85
" No. 20	44.89	45,940.26	45,985.15
" No. 57		10,268.96	10,268.96
" No. 58		38,928.98	38,928.98
Queen Elizabeth Way	82,563.74	83,779.73	166,343.47
Controlled Access Highway Survey	338.42		338.42
	$ 85,038.19	$ 268,405.97	$ 353,444.16
WELLINGTON:—			
Highway No. 6	$ 781.82	$ 79,904.23	$ 80,686.05
" No. 7		15,856.39	15,856.39
" No. 9	128.87	35,533.23	35,662.10
" No. 23	120.06	5,127.91	5,247.97
" No. 24		30,796.60	30,796.60
" No. 86		23,244.52	23,244.52
" No. 87	1,194.12	5,188.81	6,382.93
" No. 8 Survey	174.66		174.66
" No. 21 Survey	45.27		45.27
Connecting Link, Town of Fergus		219.74	219.74
Connecting Link, Town of Mount Forest		1,075.25	1,075.25
	$ 2,444.80	$ 196,946.68	$ 199,391.48

County	Construction	Maintenance	Total
WENTWORTH:—			
Highway No. 2	$ 5,949.10	$ 38,254.33	$ 44,203.43
" No. 2A		15,132.69	15,132.69
" No. 5		36,851.47	36,851.47
" No. 6	766.40	32,878.93	33,645.33
" No. 8	1,691.95	50,065.01	51,756.96
" No. 20	65.82	16,594.30	16,660.12
" No. 20A		677.03	677.03
" No. 52	53.70	17,838.59	17,892.29
" No. 53		8,796.00	8,796.00
" No. 55		2,918.53	2,918.53
" No. 56	2,165.14	24,049.41	26,214.55
" No. 97	2,273.08	15,984.87	18,257.95
" No. 99		14,035.79	14,035.79
Dundas Diversion		6,911.43	6,911.43
Queen Elizabeth Way	333.97	30,680.87	31,014.84
Burlington Beach		9,700.62	9,700.62
Preliminary Surveys	178.27		178.27
Connecting Link, Town of Dundas		1,048.51	1,048.51
	$ 13,477.43	$ 322.418.38	$ 335,895.81
YORK:—			
Highway No. 2	$ 230.13	$ 54,594.00	$ 54,824.13
" No. 5	63,891.24	24,588.97	88,480.21
" No. 5A	315.20	15,884.83	16,200.03
" No. 7	2,791.81	54,351.31	57,143.12
" No. 11	214,291.97	69,790.41	284.082.38
" No. 24	75.10		75.10
" No. 27	3,970.14	78,535.69	82,505.83
" No. 48	284.76		284.76
" No. 49		7,559.18	7,559.18
" No. 50	493.81		493.81
Queen Elizabeth Way	260.26	29,137.92	29,398.18
Four-Lane Highway, Toronto East	83,302.80	16,699.51	100,002.31
Toronto By-Pass	104,994.44		104,994.44
Queen St.- Lake Shore Road-Brown's Line		6,575.73	6,575.73
Toronto-Barrie Highway	1,726.338.91		1,726,338.91
Preliminary Surveys	2,399.54		2,399.54
Connecting Link, Town of Mimico		Cr. 1,996.64	Cr. 1,996.64
Connecting Link, Town of New Toronto		Cr. 456.95	Cr. 456.95
Connecting Link, Village of Long Branch		525.11	525.11
Connecting Link, Village of Richmond Hill		600.37	600.37
District	$2,203,640.11	$ 356,389.44	$2,560,029.55
HALIBURTON:—			
Highway No. 28		$ 16,561.26	$ 16,561.26
" No. 35	$ 11,740.29	59,360.68	71,100.97
" No. 60		4,285.04	4,285.04
Preliminary Surveys	64.76		64.76
Development Roads:—			
Haliburton-Redstone	50.00	8,520.80	8,570.80
Minden-Hastings County Boundary	13.91	20,881.44	20,895.35
Minden-Kinmount		4,337.75	4,337.75
Kinmount-Hastings County Boundary	87,463.74	44,989.55	132,453.29
Buckhorn Road	4,601.87		4,601.87
Locklin-Gelert Road	3,848.30		3,848.30
	$ 107,782.87	$ 158,936.52	$ 266,719.39

District	Construction	Maintenance	Total
MUSKOKA:—			
Highway No. 11	$ 11,058.28	$ 112,614.36	$ 123,672.64
" No. 35	185.49	12,411.03	12,596.52
" No. 60	11.18	22,016.70	22,027.88
" No. 69	8,452.42	64,499.90	72,952.32
Waubaushene-Parry Sound Survey	104.15		104.15
Falconbridge-Parry Sound Survey	25.89		25.89
Gravenhurst-Burks Falls Survey	139.84		139.84
Development Roads:—			
Honey Harbor-Fort Severn-Muskoka Boundary		15,330.49	15,330.49
Clear Lake	3,560.09		3,560.09
Highway No. 11—Gravenhurst Sanitorium		180.80	180.80
Huntsville-Baysville		41,501.57	41,501.57
Falkenburg-Rosseau	152.36	26,291.30	26,443.66
Bracebridge-Dorset	13.00	20,583.75	20,596.75
Bracebridge-Glen Orchard		22,524.00	22,524.00
Port Sydney-Windemere		11,195.53	11,195.53
Interlaken Road		16,575.61	16,575.61
Connecting Link, Town of Huntsville		1,159.14	1,159.14
Connecting Link, Town of Bracebridge		1,415.49	1,415.49
Unincorporated Townships:—			
Sinclair Township		1,541.98	1,541.98
Baxter Township		1,017.14	1,017.14
	$ 23,702.70	$ 370,858.79	$ 394,561.49
NIPISSING—			
Highway No. 11	$ 100,075.52	$ 98,640.89	$ 198,716.41
" No. 17	201,230.36	157,130.63	358,360.99
" No. 60	1,337.42	102,185.15	103,522.57
" No. 63	11,462.36	115,033.63	126,495.99
" No. 64	7,537.13	49,314.87	56,852.00
" No. 94	1,029.51	13,538.24	14,567.75
North Bay By-Pass Survey	7,843.21		7,843.21
Latchford-New Liskeard Survey	74.88		74.88
Maynooth-Whitney Survey	1,737.05		1,737.05
Airport-Feronia Survey	1,302.38		1,302.38
Bridge over Veuve River Survey	555.03		555.03
Preliminary Surveys	120.77		120.77
Development Roads:—			
Mattawa-Harrington Creek	2,837.16	6,792.23	9,629.39
Highway No. 11—Airport		5,431.85	5,431.85
Verner-Lavigne-Muskrat Creek	11,807.88	17,906.16	29,714.04
Field-River Valley-Afton Mine	447.53	4,787.40	5,234.93
Warren-River Valley	580.38	6,347.76	6,928.14
Hagar-Rutter-Bigwood-Wolseley Bay		59,638.76	59,638.76
Old Highway No. 11		1,007.15	1,007.15
Madawaska-Cross Lake		3,017.53	3,017.53
Highway No. 16—Hastings Boundary	300.00	2,975.14	3,275.14
Mining Roads:—			
Cuniptan Road and Spurs		1,005.13	1,005.13
Unincorporated Townships:—			
Phelps Township		1,943.88	1,943.88
Grant Township		1,742.42	1,742.42
Bastedo Township		997.66	997.66
Gibbons Township		628.58	628.58
Badgerow No. 1 Township		6,119.55	6,119.55
Badgerow No. 2 Township		381.90	381.90
Crerar Township		9,581.37	9,581.37
Hagel Township		1,706.46	1,706.46
Kirkpatrick Township		2,145.69	2,145.69
MacPherson Township		3,284.16	3,284.16
Falconer Township		5,136.60	5,136.60
Scollard Township		2.75	2.75

District	Construction	Maintenance	Total
Nipissing; (Continued)			
Haddo Township		$ 204.62	$ 204.62
Henry Township		369.37	369.37
Hoskins Township		196.91	196.91
Delamere Township		2,048.83	2,048.83
Bigwood Township		2,537.26	2,537.26
Lauder Township		175.00	175.00
Pedley Township		243.00	243.00
Sisk Township		173.56	173.56
Janes Township		641.48	641.48
Airy Township		192.51	192.51
Dickens Township		912.30	912.30
Murchison Township		199.80	199.80
	$ 350,278.57	$ 686,318.18	$1,036,596.75
PARRY SOUND:—			
Highway No. 11	$ 69.99	$ 165,865.45	$ 165,935.44
" No. 69	108,121.96	68,467.98	176,589.94
Parry Sound-Emsdale Road Survey	2.87		2.87
Burks Falls-North Bay Survey	189.19		189.19
Waubaushene-Parry Sound Survey	104.15		104.15
Development Roads:—			
Eagle Lake Road-Macher Township	10,245.18		10,245.18
Hayes Corner-Rosseau		13,301.65	13,301.65
Highway No. 11-Highway No. 69	16,510.32	22,487.09	38,997.41
Parry Sound-Burks Falls		69,566.97	69,566.97
Dunchurch-Ardbeg		5,483.73	5,483.73
Magnetawan-Sundridge		8,951.01	8,951.01
Highway No. 69-Bayfield Inlet		2,093.39	2,093.39
Powassan Westerley		41,645.54	41,645.54
Trout Creek-Loring-Restoule		54,233.01	54,233.01
Unincorporated Townships:—			
Conger Township		744.52	744.52
Monteith Township		1,819.50	1,819.50
Bethune Township		3,099.27	3,099.27
Proudfoot Township		830.67	830.67
Spence Township		2,239.59	2,239.59
Ferguson Township		831.17	831.17
Burpee Township		1,050.84	1,050.84
Croft Township		2,675.46	2,675.46
Laurier Township		1,367.77	1,367.77
Lount Township		2,785.05	2,785.05
Ferrie Township		61.12	61.12
McKenzie Township		1,939.28	1,939.28
South Wallbridge Township		904.10	904.10
North Wallbridge and Henvey Township		422.32	422.32
Patterson Township		1,567.54	1,567.54
Gurd Township		2,619.63	2,619.63
Pringle Township		1,906.34	1,906.34
Wilson and McConkey Township		1,387.55	1,387.55
Mills and Hardy Township		3,334.51	3,334.51
	$ 135,243.66	$ 483,682.05	$ 618,925.71
TEMISKAMING:—			
Highway No. 11	$ 107,155.72	$ 272,627.17	$ 379.782.89
" No. 65	17,392.15	70,762.00	88,154.15
" No. 66	162,943.82	60,013.64	222,957.46
Kenogami-Matachewan Survey	94.23		94.23
Winston North-Highway No. 11 (New) Survey	15,184.66		15,184.66
Elk Lake-Westree Survey	437.09		437.09
Timmins Southwesterly Survey	2,093.05		2,093.05
Connecting Link, Town of Cobalt		8.37	8.37

District	Construction	Maintenance	Total
TEMISKAMING:—(Continued)			
Development Roads:—			
Lorain Road	$ 585.09	$ 9,293.74	$ 9.878.83
Haileybury West Road		14,504.99	14,504.99
North Temsikaming Road		37,167.13	37,167.13
North Road		7,774.04	7,774.04
McCool-Thornloe-Earlton		25,885.82	25,885.82
Charlton Road		9,997.74	9,997.74
Boston Creek and Spurs		4,468.08	4,468.03
Charlton-Elk Lake Road	300.00	5,246.94	5,546.94
Gowganda Road and Spurs	152.46	39,765.17	39,917.63
Larder Lake Station Road	1,716.15	1,816.92	3,533.07
Kenogami Station Road		542.39	542.39
Sesekinika Road		1,010.72	1,010.72
Silver Centre-Hydro Elect. Plant	6,854.88		6,854.88
Inglis Bridge	6,005.00		6,005.00
Mining Roads:—			
Ashley Road		4,869.70	4,869.70
Silverado Road		747.54	747.54
Bidgood Road	2,666.63	258.60	2,925.23
Martin-Bird Road	1,998.69	801.53	2,800.22
Cheminis Road		3,589.49	3,589.49
Tyrell Twp.-Welsh Mac Mines		2,081.46	2,081.46
Unincorporated Townships:—			
Firstbrook Township		317.82	317.82
Ingram Township		1,870.15	1,870.15
Pense Township		715.02	715.02
Marter Township	2,016.75	2,538.46	4,555.21
Pacaud Township	6.017.44	2,590.81	8,608.25
Robillard Township		1,878.99	1,878.99
Robillard-Sharpe-Savard Township		129.92	129.92
Sharpe Township		649.84	649.84
Savard Township		2,370.87	2,370.87
Bryce and Robillard Township		2,118.16	2,118.16
Beauchamp Township		2,443.28	2,443.28
Henwood Township		2,876.55	2,876.55
Cane Township		1,090.72	1,090.72
Barber Township		32.53	32.53
Tudhope Township		48.34	48.34
Marquis Township		1,918.27	1,918.27
Otto Township		1,580.32	1,580.32
Eby and Blain Township		1,408.39	1,408.39
Benoit Township		1,375.39	1,375.39
Lawson-Corkhill-Charters-Donovan Township		2,000.00	2,000.00
	$ 333,613.81	$ 603,187.01	$ 936,800.82
COCHRANE:—			
Highway No. 11	$ 613,162.51	$ 292,118.85	$ 905,281.36
" No. 67	3,835.46	73,968.25	77,803.71
" No. 101	9.34	43,442.37	43,431.71
Matheson-Quebec Bay Road Survey	21.67		21.67
Timmins Southwesterly Survey	6,086.06		6,086.06
Timmins West Survey	1,248.83		1,248.83
Night Hawk Lake Road Survey	938.04		938.04
Matheson Easterly Survey	180.27		180.27
Development Roads:—			
Munroe Road	347,841.35	2,327.86	350,169.21
Bayside Beach Road		5,988.28	5,988.28
Shillington-Iroquois Road		1,634.09	1,634.09
Timmins Back Road		6,450.68	6,450.68
Sandy Falls-West Road	10,000.00	5,374.68	15,374.68
Holtyre Road		7,198.49	7,198.49
Coulson Road		178.96	178.96
Nellie Lake-Iroquois Falls		5,864.56	5,864.56
Iroquois Falls-Monteith		598.05	598.05
Cochrane-Norembega	5,648.36	27,668.23	33,316.59

County	Construction	Maintenance	Total
Cochrane:—(Continued)			
Cochrane-Gardiner		$ 14,204.52	$ 14,204.52
Moonbeam-Remi Lake		3,791.22	3,791.22
Hearst-Lake St. Therese		17,938.86	17,938.86
Hearst-Meade		31,226.93	31,226.93
Staunton Pit Road	$ 32,813.88	191.36	33,005.24
Coppell-Meade	9,590.71		9,590.71
Geraldton		15,344.67	15,344.67
Mining Roads:—			
Kamiskotia Road		48.67	48.67
Spurs off Timmins Back Road		867.25	867.25
Gold Hawk Lake Road	7,931.33	1,508.67	9,440.00
Aquarius Porcupine Road		2.75	2.75
Unincorporated Townships:—			
Black River Township		74,352.30	74,352.30
Clergue Township		342.04	342.04
Dundonald Township		377.13	377.13
German and Matheson Township		873.29	873.29
Shaw Township		1,299.49	1,299.49
Walker Township		454.40	454.40
Macklem and Thomas Township		1,326.30	1,326.30
Clute and Calder Township		2,802.56	2,802.56
Lamarche Township		2,342.63	2,342.63
Kennedy Township		1,465.72	1,465.72
Owens-Williamson Township		2,283.48	2,283.48
Pyne Township		2,069.48	2,069.48
Clute-Frederickhouse Township		2,431.65	2,431.65
Fox-Brower Township		2,596.21	2,596.21
Haggart Township		699.00	699.00
Fournier Township		2,108.80	2,108.80
Kendall-Devitt Township		2,009.43	2.009.43
O'Brien-Owens Township		4,112.28	4,112.28
Clute-Leitch-Blount Township		4,351.07	4,351.07
Way-Lowther Township		1,605.67	1,605.67
Lowther Township		2,206.68	2,206.68
Eilber-Devitt Township		2,227.00	2,227.00
Williamson-Idington-Owens Township		1,370.66	1,370.66
Devitt Township		643.77	643.77
Casgrain Township		2,832.17	2,832.17
Idington-McCrea Township		1,791.85	1,791.85
Newmarket Township		2,577.47	2,577.47
Nansen Township		1,165.77	1,165.77
Hanlan-Way Township		3,299.17	3,299.17
Calder Township		1,377.26	1,377.26
Kendall-Way Township		4,882.50	4,882.50
Smooth Rock Falls-Railway Station Township		2,534.85	2,534.85
Franz-Hawkins Township		239.55	239.55
Eilber Township		321.83	321.83
Kendall Township		101.37	101.37
Hanlan Township		1,056.57	1,056.57
Blount Ferry Township		890.51	890.51
O'Brien Township		118.25	118.25
Brower Township		50.00	50.00
Colquhoun Township		136.75	136.75
	$1,039,307.81	$ 697,645.16	$1,736,952.97

District	Construction	Maintenance	Total
SUDBURY:—			
Highway No. 17	$ 3,709.15	$ 159,014.96	$ 162,724.11
" No. 68	50,225.26	22,870.27	73,095.53
" No. 69	5,213.93	17,137.93	22,351.86
Warren South-St. Charles Survey	50.06		50.06
Highway Espanola Survey	648.59		648.59
Skead Road Survey	449.08		449.08
Road to Creighton Mine Survey	72.37		72.37
Iron Bridge-Chapleau Survey	5,007.65		5,007.65
French River-Sudbury Survey	6,146.76		6,146.76
Sudbury-Capreol Survey	802.43		802.43
Shining Tree-Timmins Survey	209.69		209.69
Sudbury-Shining Tree Survey	180.42		180.42
Development Roads:—			
Hagar North Road		459.93	459.93
Wanapitae-Wanup Road		3,953.79	3,953.79
Highway No. 17-Falconbridge	2,253.53	13,800.79	16,054.32
Garson-Skead	12,356.15	8,536.59	20,892.74
Hanmer-Bailey's Corner		3,314.37	3,314.37
Sudbury-Milnet	64,372.10	42,277.76	106,649.86
Sudbury-Frood Mine		1,795.23	1,795.23
Sudbury-Levack	32,875.54	44,096.97	76,972.51
Highway No. 69-Long Lake	21,334.42	22,595.04	43,929.46
Kelly Lake-Long Lake		601.95	601.95
Highway No. 17-Creighton Mine	705.04	4,317.44	5,022.48
Whitefish-Lake Penage		2,997.69	2,997.69
Espanola-Lake Penage		460.28	460.28
Chapleau South		1,158.26	1,158.26
Missanabie-Renabie Mine	2,535.80		2,535.80
Chelmsford-Blezard	2,559.69		2,559.69
Unincorporated Townships:—			
Awrey Township		320.61	320.61
Broder Township		76.45	76.45
Burwash Township		36.50	36.50
Capreol Township		1,137.93	1,137.93
Cleland Township		942.90	942.90
Creighton Township		310.00	310.00
Dieppe Township		335.50	335.50
Dill Township		31.46	31.46
Dryden Township		674.25	674.25
Ermatinger Township		1,236.70	1,236.70
Fairbank Township		961.33	961.33
Falconbridge Township		198.96	198.96
Foleyet Township		353.22	353.22
Foster Township		189.20	189.20
Frechette, McNamara and Leask Township		408.00	408.00
Lorne Township		1,136.34	1,136.34
Longhrin Township		1,747.47	1,747.47
Louise Township		1,376.36	1,376.36
Lumsden Township		296.21	296.21
MacLennan Township		117.62	117.62
Trill Township		92.00	92.00
Merritt Township		639.18	639.18
Timber Berth No. 11 Township		36.00	36.00
Moncrieff Township		1,600.00	1,600.00
Snider Township		208.00	208.00
Morgan Township		34.95	34.95
Norman Township		202.18	202.18
Secord Township		169.90	169.90
	$ 211,707.66	$ 364,258.47	$ 575,966.13

District	Construction	Maintenance	Total
ALGOMA-MANITOULIN:—			
Highway No. 17	$ 54,545.26	$ 348,720.69	$ 403,265.95
" No. 68	51,153.29	52,756.03	103,909.32
Iron Bridge-Chapleau Survey	4,443.26		4,443.26
Little Current Road Survey	85.59		85.59
Little Current-Manitowaning Road Survey	319.48		319.48
Gore Bay-Meldrum Bay Survey	201.70		201.70
Little Current-Gore Bay Survey	857.81		857.81
Little Current-South Baymouth Survey	4,825.18		4,825.18
Development Roads:—			
Massey-Sable River		7,057.31	7,057.31
Matinenda Road		3,376.23	3,376.23
Lake Duborne Road		2,004.65	2,004.65
Mississauga River Road		18,030.00	18,030.00
White River Road		5,084.50	5,084.50
Wharncliffe Road	4,992.88	5,232.92	10,225.80
Dunns Valley Road		9,613.40	9,613.40
St. Joseph Island Belt Line	3,175.94	31,965.82	35,141.76
Gros Cap Road		7,510.31	7,510.31
Point Aux Pins Road		811.73	811.73
Searchmont-Wabos Road		4,964.39	4,964.39
Bellevue Road		34.75	34.75
Goulais Bay-White Birches Road		972.08	972.08
Batchawana Village Road		855.79	855.79
Michipicoten Area Road		6,075.52	6,075.52
Goudreaul-Localsh Road		834.78	834.78
Little Current-South Baymouth	2,998.17	76,288.18	79,286.35
Intersection, Little Current-South Baymouth and Mindemoya-Gore Bay	5,108.81	41,878.63	46,987.44
South Baymouth-Gore Bay		7,737.21	7,737.21
Little Current-Gore Bay	28,081.57	68,786.61	96,868.18
Gore Bay-Meldrum Bay	4,024.56	16,655.79	20,680.35
Gore Bay-Meldrum Bay-Barrie Island		6,442.65	6,442.65
Unincorporated Townships:—			
McKinnon Township		276.81	276.81
Shakespeare Township		177.77	177.77
Salter Broken Front Township		1,113.57	1,113.57
Victoria Township		2,299.49	2,299.49
Shedden Township		1,237.12	1,237.12
Striker Township		693.53	693.53
Cobden Township		79.35	79.35
Scarfe Township		123.03	123.03
Patton Township		1,477.47	1,477.47
Bright Township		320.01	320.01
Algoma Township		641.49	641.49
Grassett Township		87.01	87.01
Gould Township		1.85	1.85
Wells Township		1,158.28	1,158.28
Galbraith Township		1,240.40	1,240.40
Plummer Township		1,438.70	1,438.70
Aberdeen Township		1,274.06	1,274.06
Aweres Township		101.36	101.36
Pennefather Township		922.09	922.09
Fenwick Township		962.62	962.62
Vankoughnet Township		139.16	139.16
Gaudette Township		1,480.59	1,480.59
Shields and Gaudette Township		341.70	341.70
McMahon Township		218.24	218.24
Kars Township		163.00	163.00
Fisher Township		66.41	66.41

County	Construction	Maintenance	Total
ALGOMA-MANITOULIN:—(Continued)			
136 Township		$ 255.17	$ 255.17
3-E Township		769.55	769.55
188 Township		185.17	185.17
Campbell Township		3,307.50	3,307.50
Dawson Township		539.49	539.49
Mills Township		807.13	807.13
Robinson Township		1,334.34	1,334.34
Ranger Lake Road		1,291.46	1,291.46
Shaw Road		982.05	982.05
Blue Lake Road		219.24	219.24
Serpent River Reserve		2,034.57	2,034.57
Mississauga Reserve		160.36	160.36
Garden River Reserve		1,127.49	1,127.49
Spanish Reserve		1,530.94	1,530.94
Goulais Reserve		114.89	114.89
Manitoulin Island Unceded Reserve		3,088.33	3,088.33
Sheshegwaning Reserve		489.45	489.45
	$ 164,811.50	$ 759,962.21	$ 924,773.71
THUNDER BAY:—			
Highway No. 11	$ 1,360.78	$ 69,222.94	$ 70,583.72
" No. 17	384,802.98	150,464.03	535,267.01
" No. 17A		18,904.22	18,904.22
" No. 61	410.02	43,187.71	43,597.73
Cameron Falls Survey	10.68		10.68
Schreiber-White River Survey	470.67		470.67
Cameron Falls-Pine Rapids Survey	4,278.77		4,278.77
Port Arthur-Pidgeon River Survey	20.92		20.92
Development Roads:—			
Oliver Road		47,881.77	47,881.77
Silver Mountain Road		26,730.78	26,730.78
Kakabeka-Nolalu Road		6,849.43	6,849.43
Hymers-Scoble Road		27,362.44	27,362.44
Pearson-Pardee Road		11,752.65	11,752.65
Kashabowie Road		10,390.61	10,390.61
Devon Road		3,825.39	3,825.39
Dog Lake Road		12,562.12	12,526.12
Silver Islet Road		7,436.97	7,436.97
Nipigon-Hydro Road		639.96	639.96
Nakina		249.05	249.05
White River		173.40	173.40
Unincorporated Townships:—			
Marks Township		1,169.15	1,169.15
Lybster Township		2,037.43	2,037.43
Strange Township		450.55	450.55
Devon Township		1,839.33	1,839.33
Scoble Township		916.65	916.65
Pearson Township		1,934.83	1,934.83
Forbes Township		1,536.84	1,536.84
Goldie Township		353.43	353.43
Upsala Township		682.85	682.85
Lawill Township (Unsurveyed)		2,469.24	2,469.24
Gorham Township		3,793.51	3,793.51
Ware Township	500.00	6,045.57	6,545.57
Jacques Township		860.04	860.04
Fowler Township		172.36	172.36
Sibley Township		702.46	702.46
Derion Township		3,010.25	3,010.25
Stirling Township		697.04	697.04
Lyon Township		410.86	410.86
Nakina Township		502.72	502.72
Dawson Road Lots		4,128.59	4,128.59
Paramachene Road Indian Reserve		101.50	101.50
	$ 391,854.82	$ 471,412.67	$ 863,267.49

District	Construction	Maintenance	Total
KENORA:—			
Highway No. 17	$ 108,487.37	$ 412,863.47	$ 521,350.84
" No. 70	10,070.56	72,735.43	82,805.99
" No. 72	547.32	18,219.70	18,767.02
Red Lake Road	3,281,260.27		3,281,260.27
Ear Falls-Manitou Survey	98.62		98.62
Redditt Road Survey	326.91		326.91
Development Roads:—			
Dyment Road		571.27	571.27
Rice Lake School Van Road		2,573.02	2,573.02
Richan Road		5,479.36	5,479.36
Eton-Rugby Road		2,114.81	2,114.81
South Aubrey Road		5,436.73	5,436.73
Quibell Clay Lake Road		3,710.75	3,710.75
East Melick-Coker Road		7,103.69	7,103.69
Rabbitt Lake Road		2,628.61	2,628.61
Redditt Road		9,098.18	9,098.18
Pellatt Loop Road		4,243.55	4,243.55
Upper Falls Road	89,732.35	8,636.93	98,369.28
Unincorporated Townships:—			
Aubrey Township		419.38	419.38
Boys Township		290.25	290.25
Britton Township	698.80	1,939.18	2,637.98
Devonshire Township	449.70	183.35	633.05
Docker Township		670.08	670.08
Drayton Township		27.80	27.80
Eton Township		2,068.52	2,068.52
Godson Township		208.12	208.12
Jordan Township		15.73	15.73
Kirkup Township	1,088.18	380.93	1,469.11
Melgund Township		1,140.92	1,140.92
Mutrie Township		1,631.08	1,631.08
Pellatt Township		3,378.46	3,378.46
Phillips Township	241.50		241.50
Redditt Township		13.38	13.38
Rowell Township		1,109.46	1,109.46
Rugby Township		1,159.25	1,159.25
Southworth Township		1,016.55	1,016.55
Tweedsmuir Township	148.75		148.75
Vermilion Additional Township		754.68	754.68
Wabigoon and Redvers Township		1,382.73	1,382.73
Wainwright Township		2,105.81	2,105.81
Zealand Township	79.20	6,117.11	6,196.31
South of Jaffray Township	1,762.00	16.78	1,778.78
South of Melgund Township	311.00	1,279.63	1,590.63
South of Pellatt Township		343.00	343.00
South of Phillips Township	123.75	299.02	422.77
South of Savant Station Township		249.78	249.78
	$3,495,426.28	$ 583,616.48	$4,079,042.76

District	Construction	Maintenance	Total
RAINY RIVER:—			
Highway No. 70	$ 2,199.82	$ 68,589.69	$ 70,789.51
" No. 70A		17,631.86	17,631.86
" No. 71	2,720.88	61,164.53	63,885.41
Preliminary Survey	29.27		29.27
Development Roads:—			
Crozier Road		3,143.70	3,143.70
Delvin Road	43,466.43	9,187.96	52,654.39
Clearwater Lake Road		3,661.95	3,661.95
Stratton Road	86.49	7,494.07	7,580.56
Arbor Vitae Road	1,015.76	10,771.19	11,786.95
Sleeman Road	23,636.45	30,852.98	54,489.43
Spohn-Dearlock Road	16,628.72	12,807.60	29,436.32
River Road	2,101.02	21,662.39	23,763.41
Unincorporated Townships:—			
Miscampbell Township		928.19	928.19
Dance Township		732.36	732.36
Sifton Township		1,326.04	1,326.04
Dewart Township		764.55	764.55
Sutherland Township		690.16	690.16
Nelles Township		1,310.30	1,310.30
Pratt Township		2.50	2.50
Spohn Township		720.90	720.90
Unorganized Territory		49.50	49.50
Connecting Link, Fort Frances		177.41	177.41
Connecting Link, Rainy River		6,994.83	6,994.83
	$ 91,884.84	$ 260,664.66	$ 352,549.50
Stock (Materials, etc.)*		$ 241,139.86	$ 241,139.86
Lands and Buildings	$ 70,150.76	114,086.52	184,237.28
Weigh Scales		9,024.35	9,024.35
Road Equipment, etc.		1,460,849.57	1,460,849.57
Division Office Expense and Engineering	117,316.94	594,277.27	711,594.21
Net General Expense	256.449.66	209,278.92	465,728.58
	$16,799,001.95	$18,115,818.86	$34,914,820.81

* Inventories, March 31st, 1947	$1,080,435.31
Inventories, March 31st, 1946	839,295.45
Increase	$ 241,139.86

APPENDIX No. 2

DEPARTMENT EXPENDITURE BY ROADS, ETC.

April 1st, 1946, to March 31st, 1947

Highway No.	Location	Mileage	Construction	Maintenance	Total
2	Windsor-Quebec Boundary	541.1	$ 31,267.08	$1,334,872.46	$ 1,366,139.54
2A	Hamilton West Limits-Campbells Corners	4.20	....	15,132.69	15,132.69
2B	Highway No. 2, Howard Ave.-Highway No. 3, Dougall Ave.	5.89	....	341.49	341.49
3	Windsor-Fort Erie	260.	18,130.04	339,398.28	357,528.32
3A	Chambers Corners-St. Catharines-Niagara Falls	24.8	1,251.92	46,875.11	48,127.03
3B	Junction Highway No. 3-Windsor	6.	....	2,872.03	2,872.03
3C	Ridgeway-Fort Erie	7.5	....	5,355.16	5,355.16
4	Port Stanley-Flesherton	155.5	196,852.56	242,119.27	438,971.83
5	Toronto-Paris	64.01	231,466.78	223,601.28	455,068.06
5A	Leaside-Kingston Road	8.4	315.20	15,884.83	16,200.03
6	Port Dover-Tobermory	225.1	179,716.49	342,287.37	522,003.86
7	Sarnia-Ottawa	465.	475,510.11	591,965.64	1,067,475.75
7A	Manchester-Peterborough	42.	555.69	51,550.92	52,106.61
8	Niagara Falls-Goderich	155.7	5,177.84	164,033.15	169,210.99
8A	St. Davids-Niagara Falls	2.96	11.81	2,218.21	2,230.02
9	Schomberg-Kincardine	112.8	280.15	134,381.75	134,661.90
10	Port Credit-Owen Sound	105.	2,888.40	87,830.28	90,718.68
11	Toronto-Hearst-Geraldton-Nipigon	883.0	1,047,913.01	1,305,390.82	2,353,303.83
12	Whitby-Midland	97.7	384,515.52	142,194.67	526,710.19
14	Picton-Marmora	51.4	354.29	39,350.29	39,704.58
15	Ottawa-Kingston	131.	120,076.27	136,152.17	256,228.44
16	Ottawa-Johnston Corners	58.9	2,772.91	133,469.02	136,241.93
17	Quebec Boundary-Montreal River and Schreiber-Manitoba Boundary	1,133.7	798,448.87	1,606,266.60	2,404,715.47
17A	Port Arthur-Highway No. 17	21.1	....	18,904.22	18,904.22
18	Leamington-Windsor	49.	727.53	16,278.57	17,006.10
18A	Kingsville-Highway No. 18	18.	136.59	17,268.23	17,404.82
18B	Ruthven-Highway No. 18	1.	7.40	15,962.88	15,970.28
19	Port Burwell-Tralee	92.2	6,851.49	87,376.00	94,227.49
20	Niagara Falls-Burlington	53.3	1,459.09	81,494.89	82,953.98
20A	Junction Highway No. 20-Hamilton Limits	1.36	....	677.03	677.03
21	Morpeth-Owen Sound	207.	354,872.75	323,034.23	677,906.98
22	London-Sarnia	66.8	4,051.92	17,254.59	21,306.51
23	London-Arthur	86.3	142,677.52	89,415.80	232,093.32
24	Port Dover-Collingwood	143.4	128,157.89	166,696.86	294,854.75
24A	Paris-Galt	13.1	....	15,407.26	15,407.26
25	Junction Queen Elizabeth-Acton	29.8	2,074.45	28,303.81	30,378.26
26	Barrie-Owen Sound	74.6	3,319.96	91,428.63	94,748.59
27	Long Branch-Midland-Penetang	91.8	58,670.72	211,371.60	270,042.32
28	Port Hope-Bancroft	95.5	3,446.85	176,511.55	179,958.40
29	Brockville-Arnprior	76.4	160,713.78	50,596.87	211,310.65
30	Brighton-Havelock	32.	2,875.31	265,151.87	268,027.18
31	Morrisburg-Ottawa	48.4	46,806.73	93,213.55	140,020.28
32	Gananoque-Smith's Falls	47.9	....	12,397.28	12,397.28
33	Marmora-Trenton-Kingston	101.3	488.63	76,070.25	76,558.88
34	Lancaster-Hawkesbury	38.1	1,199.30	29,019.14	30,218.44
35	Newcastle-Huntsville	144.2	38,322.50	156,320.61	194,643.11
36	Lindsay-Burleigh Falls	47.5	734.98	88,785.84	89,520.82
37	Belleville-Actinolite	29.3	66,664.19	59,492.79	126,156.98
38	Kingston-Sharbot Lake	47.1	155,506.01	82,649.67	238,155.68
39	Windsor-Belle River	21.5	....	7,022.16	7,022.16

APPENDIX No. 2
DEPARTMENT EXPENDITURE BY ROADS, ETC.
April 1st, 1946, to March 31st, 1947

Highway No.	Location	Mileage	Construction	Maintenance	Total
40	Sarnia-Chatham	50.1	$ 1,505.08	$ 26,742.84	$ 28,247.92
41	Picton-Golden Lake	140.6	74,733.42	268,516.59	343,250.01
42	Brockville-Westport	43.	118.03	39,964.25	40,082.28
43	Alexandria-Winchester	40.4	34,823.13	35,500.64	70,323.77
44	Almonte-Carp	14.	325.81	20,072.69	20,398.50
45	Cobourg-Norwood	33.	358.41	37,123.17	37,481.58
46	Highway No. 7-Coboconk	34.	404.59	30,599.46	31,004.05
47	Highway No. 12-Stouffville	19.	6,335.84	37,567.05	43,902.89
48	Port Bolster-Beaverton	6.	220,502.66	5,128.81	225,631.47
49	Kleinburg Junction-Highway No. 50	3.35	....	7,559.18	7,559.18
50	Highway No. 7-Highway No. 9 via Bolton	18.	220,572.85	32,231.30	252,804.15
51	Highway No. 24-Highway No. 10, Caledon	2.5	....	3,612.52	3,612.52
52	Wentworth County Line-Highway No. 2	18.5	53.70	17,838.59	17,892.29
53	Woodstock-Highway No. 20	53.7	80.81	43,450.61	43,531.42
54	Cainsville-Cayuga	27.	551.84	63,113.49	63,665.33
55	Highway No. 53-Hamilton	4.	....	2,918.53	2,918.53
56	Junction Highways No. 53 and 20, Canfield	15.5	2,483.33	28,081.61	30,564.94
57	Bismarck-Highway No. 3A	9.	....	15,193.83	15,193.83
58	Welland-Humberstone	6.5	427.29	48,726.79	49,154.08
59	Woodstock-Delhi	26.5	358,790.13	31,930.91	390,721.04
60	Huntsville-Lake Dore	133.7	2,063.21	217,877.66	219,940.87
61	Fort William-United States Boundary	40.	410.02	43,187.71	43,597.73
62	Madoc-Pembroke	135.	149,755.00	209,603.26	359,358.26
63	North Bay-Temiskaming	41.	11,462.36	115,033.63	126,495.99
64	Sturgeon Falls-Martin River	34.6	7,537.13	49,314.87	56,852.00
65	New Liskeard-Matachewan	66.7	17,392.15	70,762.00	88,154.15
66	Winston-Quebec Boundary	33.7	162,943.82	60,013.64	222,957.46
67	Iroquois Falls-Timmins	43.6	3,835.46	73,968.25	77,803.71
68	McKerrow-Little Current	38.	101,378.55	75,626.30	177,004.85
69	Atherley-Britt	112.	122,474.58	158,087.92	280,562.50
70	Kenora-Fort Frances	143.	12,270.38	141,325.12	153,595.50
70A	Berwick Junction-Highway No. 70	14.	....	17,631.86	17,631.86
71	Fort Frances-Rainy River	60.	2,720.88	61,164.53	63,885.41
72	Dinorwic-Sioux Lookout-Hudson	52.5	547.32	18,219.70	18,767.02
73	Port Bruce-Dorchester Road	23.	2,060.87	31,042.59	33,103.46
74	New Sarum-Nilestown	14.	2,461.31	15,605.72	18,067.03
75	Wallacetown-Dutton	2.5	....	2,945.43	2,945.43
76	Eagle-West Lorne	3.5	....	1,852.54	1,852.54
77	New Glasgow-Rodney	4.	....	4,805.34	4,805.34
78	Wallaceburg-Dresden	10.5	1,230.10	10,987.06	12,217.16
79	Highway No. 2-Watford	25.5	293.03	23,673.37	23,966.40
80	Highway No. 2-Alvinston	13.	2,803.42	31,647.12	34,450.54
81	Delaware-Grand Bend	44.	4,206.39	37,998.17	42,204.56
82	Highway No. 7-Port Franks	7.	2,999.73	22,898.19	25,897.92
83	Highway No. 21-Highway No. 23, via Dashwood	24.	1,448.02	37,156.11	38,604.13
84	St. Joseph-Hensall	10.5	144.98	15,257.77	15,402.75
85	Kitchener-Elmira	12.	....	11,204.89	11,204.89
86	Amberley-Highway No. 7	79.	108,418.12	119,526.57	227,944.69
87	Bluevale-Harriston	19.5	111,836.29	21,073.40	132,909.69
88	Bondhead-Bradford	6.	25,816.24	7,038.34	32,854.58
89	Primrose-Cookstown	23.5	....	42,181.13	42,181.13
90	Angus-Allendale	11.	94.83	12,444.28	12,539.11
91	Duntroon-Stayner	5.2	....	10,974.40	10,974.40

APPENDIX No. 2
DEPARTMENT EXPENDITURE BY ROADS, ETC.
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Highway No.	Location	Mileage	Construction	Maintenance	Total
92	Elmvale-Wasaga Beach	9.	$ 4,124.80	$ 20,262.95	$ 24,387.75
93	Crown Hill-Waverley	17.5	299.80	41,579.07	41,878.87
94	Callander-Highway No. 17	6.5	1,029.51	13,538.24	14,567.75
95	Wolfe Island North and South	7.	10,329.83	269,780.78	280,110.61
96	Wolfe Island East and West	20.		15,589.13	15,589.13
97	Hickson-Freelton	44.5	2,476.20	51,919.46	54,395.66
98	Windsor-Tilbury	34.5	239,395.05	29,980.81	269,375.86
98A	Six Corners, Highway No. 98-Maidstone, Highway No. 3	1.1		497.91	497.91
99	Dundas-Junction Highway No. 58 and 24	16.5	46.96	14,999.04	15,046.00
100	Thamesford-Highway No. 7	15.	1,221.93	25,310.99	26,532.92
101	Highway No. 11 at Matheson-No. 67 West of Hoyle		9.34	43,422.37	43,431.71
	Queen Elizabeth Way		108,024.55	635,401.48	743,426.03
	Burlington Beach Cut-Off			9,700.62	9,700.62
	Ottawa By-Pass		120.82		120.82
	Dundas Diversion			6,911.43	6,911.43
	Queen Street-Lakeshore Road-Brown's Line			6,575.73	6,575.73
	St. Thomas Entrance			519.24	519.24
	Pelee Island			14,130.42	14,130.42
	Division Nursery-Caradoc Township			4,849.40	4,849.40
	St. Lawrence River Road		423,876.09	79,699.67	503,575.76
	Long Point Park Road			135.42	135.42
	Four-Lane Highway Toronto-Oshawa East		1,136,496.86	42,617.62	1,179,114.48
	Toronto-Barrie Highway		3,307,841.63		3,307,841.63
	Red Lake Road		3,281,260.27		3,281,260.27
	Proposed Four-Lane Highway North of Kingston		546.70		546.70
	Barrie By-Pass		915.32		915.32
	Waubaushene-Port Severn		440.81	6,556.54	6,997.35
	Waubaushene-Parry Sound		312.44		312.44
	Winston North Highway No. 11 (New) Survey		15,184.66		15,184.66
	North Bay By-Pass Survey		7,843.21		7,843.21
	Timmins Southwesterly Survey		8,179.11		8,179.11
	Timmins West Survey		1,248.83		1,248.83
	Iron Bridge-Chapleau Survey		9,450.91		9,450.91
	French River-Sudbury Survey		6,146.76		6,146.76
	Little Current-South Baymouth Survey		4,825.18		4,825.18
	Cameron Falls-Pine Rapids Survey		4,278.77		4,278.77
	Night Hawk Lake Road Survey		938.04		938.04
	Sudbury-Capreol Survey		802.43		802.43
	Miscellaneous Surveys (Controlled Access Highways, etc.)		16,669.94		16,669.94
	Toronto By-Pass		104,994.44		104,994.44
	TOTAL KING'S HIGHWAYS, ETC.		$15,157,272.83	$13,143,629.72	$28,300,902.55

APPENDIX No. 2

DEPARTMENT EXPENDITURE BY ROADS, ETC.

April 1st, 1946, to March 31st, 1947

Highway No.	Location	Mileage	Construction	Maintenance	Total
	Brought Forward		$15,157,272.83	$13,143,629.72	$28,300,902.55
	Total Development Roads		1,122,070.33	1,928,999.81	3,051,070.14
	Total Connecting Links		62,304.36	49,458.95	111,763.31
	Total Unincorporated Townships		13,437.07	365,073.89	378,510.96
	Stock (Materials, etc.)			241,139.86	241,139.86
	Lands and Buildings		70,150.76	114,086.52	184,237.28
	Weigh Scales			9,024.35	9,024.35
	Road Equipment, etc.			1,460,849.57	1,460,849.57
	Division Offices Expense and Engineering		117,316.94	594,277.27	711,594.21
	Net General Expense		256,449.66	209,278.92	465,728.58
			$16,799,001.95	$18,115,818.86	$34,914,820.81

Inventories, March 31st, 1947	$1,080,435.31
Inventories, March 31st, 1946	839,295.45
Increase	$ 241,139.86

APPENDIX No. 3

SCHEDULE OF ASSUMPTIONS AND REVERSIONS OF SECTIONS OF THE KING'S HIGHWAY SYSTEM FOR THE FISCAL YEAR ENDING MARCH 31st, 1947.

Assumptions

District or County	Location of Road	Date Assumed	Miles
Middlesex	Adelaide and Williams E. Twp.	July 3, 1946.	2.50

Assumed by Land Plan

Glengarry	South Lancaster		.11
Renfrew	Rolph Township		0.14
			2.75

Reversions

District or County	location of Road	Date Reverted	Miles
Glengarry	South Lancaster	June 22, 1946	0.14
Middlesex	Williams E. Twp.	June 14, 1946	2.50
Renfrew	Rolph Twp.	Mar. 29, 1946	0.15
			2.79

APPENDIX

BRIDGES COMPLETED ON THE

Name	Type	Span	Road
Boulter Bridge (York River)	Steel Truss	1 at 137′	Hermon-Combermere
Bug River	Timber Pile Trestle	18 at 15′	Red Lake Road
Caribou Creek	Timber Pile Trestle	7 at 15′	Red Lake Road
Chukuni River	Timber Pile Trestle	26 at 15′, 1 at 36′	Red Lake Road
Clute Twp. Bridge	Timber Pile Trestle	2 at 15′	No. 11 Cochrane and Hearst
Commanda Creek	Timber Truss	1 at 45′, 2 at 15′	Restoule-Loring Spur
Inglis Bridge (Blanche River)	Steel Truss and Timber Trestle	1 at 125′, 5 at 15′	Englehart-Marter Twp.
Irondale Bridge (Burnt River)	Timber Pile Trestle	5 at 15′, 1 at 5′	Kinmount-Gooderham
Lamarche Twp.	Timber Pile Trestle	2 at 15′	No. 11. Cochrane-Porquis Jct.
Moira River (O'Brien Bridge)	Steel Beam	58′-78′-78′-78′-58′	No. 37. Belleville-Actinolite
Perrault Falls Bridge	Timber Truss	3 at 30′	Red Lake Road
Pickerel Creek	Timber Pile Trestle	3 at 15′	Red Lake Road
Sandy Creek	Timber Pile Trestle	8 at 15′	Red Lake Road
Stone River	Timber Pile Trestle	7 at 15′	Red Lake Road
Trout Lake River	Timber Pile Trestle	36 at 15′, 1 at 36′	Red Lake Road
Whitefish River	Creosoted Timber Truss	1 at 60′	Whitefish-Silver Mountain Road

No. 4

KING'S HIGHWAYS DURING 1946

Township	Lot	Con.	County or District	Div. No.
Carlow	20-21	X	Hastings	10
Unsurveyed			Kenora	20
Unsurveyed			Kenora	20
Unsurveyed			Kenora	20
Clute	17	I	Cochrane	16
Pringle	2	XII	Parry Sound	13
Marter	10-11	II	Timiskaming	14
Snowdon	30	V	Haliburton	11
Lamarche	8-9	V	Cochrane	16
Thurlow	18	VI	Hastings	8
Unsurveyed			Kenora	20
Unsurveyed			Kenora	20
Unsurveyed			Kenora	20
Unsurveyed			Kenora	20
Unsurveyed			Kenora	20
Gillies	12	V	Thunder Bay	19

APPENDIX No. 5

GROWTH OF COUNTY ROAD EXPENDITURES AND PROVINCIAL GRANTS TO 1946

Year Work was Done	Number of Counties	Approved Expenditure	Government Grants
1903	4	$ 166,149.06	$ 55,383.02
1904	7	291,085.42	97,028.48
1905	6	179,593.62	59,864.53
1906	8	247,102.37	82,367.45
1907	14	383,518.86	127,839.62
1908	15	429,393.57	143,131.16
1909	16	440,374.08	146,791.36
1910	17	553,312.61	184,437.54
1911	19	712,072.52	237,357.50
1912	20	898.631.18	299,543.69
1913	20	847,684.15	282,561.35
1914	20	785,521.93	261,840.61
1915	20	811,540.05	270,513.34
1916	21	955,447.19	327,663.76
1917	30	1,388,341.87	483,621.32
1918	36	2,226,899.70	815,440.01
1919	37	5,714,937.19	2,623,719.24
1920	37	7,956,863.72	3,626,418.08
1921	37	11,078,288.39	5,119,882.26
1922	37	9,162,491.79	4,258,339.83
1923	37	7,403,509.96	3,418,523.07
1924	37	6,861,451.62	3,214,321.50
1925	37	6,608,431.04	3,222,678.10
1926	37	5,838,445.12	2,913,660.96
1927	37	7,424,464.85	3,706,719.88
1928	37	8,784,420.42	4,360,222.86
1929	37	9,212,758.04	4,591,110.16
1930	37	8,929,424.27	4,463,527.11
1931	37	7,265,350.65	3,625,860.66
1932	37	4,214,410.70	2,106,457.18
1933	37	3,058,622.91	1,529,228.37
1934	37	3,391,768.96	1,695,291.35
1935	37	3,107,215.32	1,553,273.39
1936	37	3,438,188.53	1,718,944.63
1937	37	4,062,753.39	2,031,372.49
1938	37	4,686,333.38	2,342,971.65
1939	37	4,775,109.01	2,387,240.73
1940	37	4,496,702.25	2,247,977.06
1941	37	4,805,301.60	2,402,650.75
1942	37	3,221,505.02	1,610,752.54
1943	37	3,951,745.47	1,975,872.73
1944	37	4,675,028.89	2,365,507.20
1945	37	5,692,079.85	2,898,135.97
1946	37	7,392,946.45	3,769,755.43
Totals to Date		$178,527,216.97	$85,655,799.92

APPENDIX No. 6

COUNTY ROAD MILEAGE AND EXPENDITURE

From Inception of County Road Systems to December 31st, 1946, Provincial Subsidies on 1946 Expenditures Being Paid in the 1946-47 Fiscal Year.

County	Year of Establishment of System	Road Mileages			Total Approved Expenditure to end of 1946	Total Government Grant
		County Roads	County Suburban Roads	Total		
Brant	1917	74.3	28.4	102.7	$ 3,234,748.78	$1,609,140.24
Bruce	1917	289.3		289.3	4,630,119.08	2,307,847.72
Carleton	1910	141.7	90.0	231.7	8,555,297.79	4,081,235.87
Dufferin	1918	155.7		155.7	1,897,549.20	912,392.28
Elgin	1917	230.2	20.0	250.2	3,777,625.28	1,821,184.08
Essex	1916	204.4	41.0	245.4	7,189,459.59	3.539,118.05
Frontenac	1907	143.1	38.7	181.8	2,299,889.77	1,083,935.88
Grey	1918	262.0	32.5	294.5	4,878,174.51	2,422,433.77
Haldimand	1912	155.2		155.2	3,915,979.25	1,860,204.12
Halton	1907	146.1		146.1	3,087,178.59	1,453,951.90
Hastings	1904	273.8	5.3	279.1	4,294,158.01	2,020,255.17
Huron	1917	375.5		375.5	4,273,639.76	2,082,344.11
Kent	1917	270.3	9.7	280.0	7,068,521.07	3,541,919.00
Lambton	1918	212.5	14.5	227.0	3,506,566.00	1,704,285.42
Lanark	1903	224.9	6.0	230.9	3,533,738.30	1,689,745.04
Leeds and Grenville	1910	288.8	12.7	301.5	5,059,854.60	2,387,618.15
Lennox and Addington	1906	162.5		162.5	3,242,777.72	1,577,166.57
Lincoln	1904	145.8	12.3	158.1	5,225,143.56	2,356,780.24
Middlesex	1906	421.3	54.1	475.4	5,948,532.29	2,794,028.90
Norfolk	1917	202.8		202.8	4,977,293.22	2,403,243.51
Northumberland and Durham	1918	229.7		229.7	4,088,665.80	2,016,047.18
Ontario	1918	222.2	16.2	238.4	3,163,387.74	1,554,620.99
Oxford	1904-7	191.1	3.9	195.0	4,226,171.62	1,941,109.37
Peel	1907	136.6		136.6	3,481,529.41	1,610,515.69
Perth	1907	182.0	7.5	189.5	2,567,911.19	1,200,312.54
Peterborough	1919	128.7	76.4	205.1	1,941,188.54	947,894.35
Prescott and Russell	1917	303.1		303.1	5,754,073.83	2,657,393.45
Prince Edward	1907	174.9		174.9	2,811,462.38	1,316,753.37
Renfrew	1918	221.0		221.0	4,065,954.32	1,992,408.07
Simcoe	1903	259.4		259.4	5,424,673.63	2,559,250.14
Stormont, Dundas and Glengarry	1917	433.3	30.0	463.3	7,432,217.55	3,642,586.65
Victoria	1917	211.9		211.9	3,433,784.60	1,707,015.82
Waterloo	1908	159.8	25.2	185.0	5,445,431.41	2,677,349.95
Welland	1912	105.0	16.9	121.9	5,685,953.76	2,665,292.66
Wellington	1903	319.9	23.5	343.4	5,528,642.73	2,652,463.56
Wentworth	1903	100.4	53.0	153.4	5,676,012.69	2,654,319.82
York	1911	71.3	261.7	333.0	17,203,909.40	8,211,636.29
TOTALS		7,830.5	879.5	8,710.0	$178 527,216.97	$85,655,799.92

APPENDIX

SUMMARY OF COUNTY

Name of County	Roads		Bridges	
	Construction	Maintenance	Construction	Maintenance
Brant	$ 74,252.71	$ 35,029.84		
Bruce	96,801.70	66,273.64		$ 342.40
Carleton	133,426.48	102,174.28		1,705.55
Dufferin	37,298.32	36,213.24		761.47
Elgin	66,268.50	115,471.75		
Essex	56,900.80	80,896.71		328.50
Frontenac	48,834.38	25,400.75		636.88
Grey	99,063.16	84,662.60		324.16
Haldimand	215,888.32	79,441.20		360.99
Halton	27,385.83	47,971.76	957.60	1,221.09
Hastings	44,379.62	72,405.15		1,273.85
Huron	111,841.15	78,354.39		1,223.23
Kent	251,662.29	142,606.24	9,182.94	977.51
Lambton	40,245.93	85,367.01	1,964.24	
Lanark	49,936.58	50,496.46		1,792.29
Leeds and Grenville	98,882.70	103,289.54	52.20	1,497.43
Lennox and Addington	46,166.56	50,951.95		1,673.27
Lincoln	107,713.12	95,422.71		216.24
Middlesex	103,020.60	183,252.89		1,924.15
Norfolk	105,185.66	98,874.01	380.44	
Northumberland and Durham	75,224.89	58,766.70		275.42
Ontario	40,355.30	90,909.90		1,401.37
Oxford	129,743.91	63,999.04	85.24	440.67
Peel	43,942.54	75,286.03	1,136.00	
Perth	36,991.40	95,881.85		969.29
Peterborough	28,152.55	61,570.12		2,241.84
Prescott and Russell	126,862.42	128,983.20		3,168.63
Prince Edward	40,631.88	52,849.22		773.34
Renfrew	51,994.99	71,745.46		
Simcoe	81,945.62	108,227.55		3,039.93
Stormont, Dundas and Glengarry	109,957.45	106,109.39		4,834.06
Victoria	41,944.26	52,957.45		471.49
Waterloo	75,007.11	117,625.27	1,200.00	1,129.24
Welland	84,993.51	53,420.28		1,879.16
Wellington	31,770.38	225,294.13	12,860.00	1,590.44
Wentworth	85,027.17	84,981.35		340.99
York	142,012.59	224,252.35	7,705.65	
Totals	$3,041,712.38	$3,307,415.41	$ 35,524.31	$ 38,814.88

No. 7

ROAD EXPENDITURES—1946

Bridges and Culverts Special Rate		Winter Control (Maintenance)	Approved Expenditure			Government Subsidy
Construction	Maintenance		Construction	Maintenance	Total	
......	......	$ 7,352.49	$ 74,252.71	$ 42,382.33	$ 116,635.04	$ 58,317.52
$ 1,285.34	......	23,956.62	98,087.04	90,572.66	188,659.70	94,651.18
14,049.22	......	31,312.22	147,475.70	135,192.05	282,667.75	144,846.18
......	......	22,985.96	37,298.32	59,960.67	97,258.99	48,629.49
12,288.21	......	2,808.95	78,556.71	118,280.70	196,837.41	101,490.76
......	......	1,977.79	56,900.80	83,203.00	140,103.80	70,051.90
......	......	9,477.45	48,834.38	35,515.08	84,349.46	42,174.73
6,602.35	......	35,348.56	105,665.51	120,335.32	226,000.83	114,651.00
9,109.23	......	4,093.69	224,997.55	83,895.88	308,893.43	156,724.02
10,988.90	......	9,774.53	39,332.33	58,967.38	98,299.71	51,897.07
......	......	14,235.47	44,379.62	87,914.47	132,294.09	66,147.05
7,247.20	......	24,778.89	119,088.35	104,356.51	223,444.86	113,534.23
......	......	2,290.14	260,845.23	145,873.89	406,719.12	203,359.56
......	......	4,561.63	42,210.17	89,928.64	132,138.81	66,069.41
......	......	12,687.56	49,936.58	64,976.31	114,912.89	57,456.45
......	......	12,880.45	98,934.90	117,667.42	216,602.32	108,301.16
4,408.00	......	9,713.28	50,574.56	62,338.50	112,913.06	57,558.53
16,430.59	......	7,545.15	124,143.71	103,184.10	227,327.81	117,771.55
3,574.19	......	15,353.97	106,594.79	200,531.01	307,125.80	154,456.45
1,080.29	......	7,523.88	106,646.39	106,397.89	213,044.28	106,792.21
......	......	23,555.23	75,224.89	82,597.35	157,822.24	78,911.12
22,220.87	......	22,453.26	62,576.17	114,764.53	177,340.70	94,225.58
......	......	1,426.43	129,829.15	65,866.14	195,695.29	97,847.65
18,060.05	......	19,452.97	63,138.59	94,739.00	157,877.59	83,453.81
4,201.44	......	8,195.28	41,192.84	105,046.42	146,239.26	74,169.99
......	5,725.21	9,791.48	28,152.55	79,328.65	107,481.20	55,171.90
10,892.94	......	31,218.53	137,755.36	163,370.36	301,125.72	153,286.09
......	......	7,042.54	40,631.88	60,665.10	101,296.98	50,648.49
......	......	10,704.41	51,994.99	82,449.87	134,444.86	67,222.43
......	......	25,775.14	81,945.62	137,042.62	218,988.24	109,494.12
......	......	48,849.14	109,957.45	159,792.59	269,750.04	134,875.02
2,055.74	......	12,399.57	44,000.00	65,828.51	109,828.51	55,428.18
......	3,209.39	22,790.86	76,207.11	144,754.76	220,961.87	111,283.28
......	......	5,692.43	84,993.51	60,991.87	145,985.38	72,992.69
50,612.22	6,610.77	34,558.56	95,242.60	268,053.90	363,296.50	195,953.99
......	......	12,867.08	85,027.17	98,189.42	183,216.59	91,608.30
82,476.74	......	118,918.99	232,194.98	343,171.34	575,366.32	308,302.34
$ 277,583.52	$ 15,545.37	$ 676,350.58	$3,354,820.21	$4,038,126.24	$7,392,946.45	$3,769,755.43

APPENDIX No. 8

SUMMARY OF ROAD EXPENDITURES IN ORGANIZED TOWNSHIPS

Approved Expenditure and Government Subsidy on Township, Improvement District, Indian Reserve and Provincial Park Roads Under the Provisions of The Highway Improvement Act, Part IV.

Year	No. of Townships	Approved Expenditure			Government Subsidy
		Construction	Maintenance	Total	
1920 to 1934	172 to 338	$23,718,523.99	$34,676,016.07	$58,394,540.06	$18,743,070.89
1935	339	830,871.14	2,114,553.23	2,945,424.37	1,233,806.48
1936	343	713,523.32	2,275,094.06	2,988,617.38	1,251,632.43
1937	344	1,236,900.18	2,620,618.43	3,857,518.61	1,943,344.98
1938	559	1,589,096.89	3,237,808.11	4,826,905.00	2,553,837.97
1939	565	1,824,526.20	3,568,455.39	5,392,981.59	2,865,752.12
1940	563	1,006,122.02	3,499,173.61	4,505,295.63	2,411,064.90
1941	566	1,060,139.17	4,392,147.57	5,452,286.74	2,917,816.44
1942	564	19,564.88	3,678,736.47	3,698,301.35	1,978,368.31
1943	564	209,424.76	5,303,565.76	5,512,990.52	2,929,508.15
1944	564	1,286,828.69	4,976,971.21	6,263,799.90	3,400,704.29
1945	566	2,109,532.25	5,587,001.62	7,696,533.87	4,177,608.83
1946	568	3,556,210.96	5,810,443.63	9,366,654.59	5,131,432.11
TOTALS.............	....	$39,161,264.45	$81,740,585.16	$120,901,849.61	$51,537,947.90

NOTE: *In addition to the 568 townships listed for the last year, 9 Improvement Districts, 22 Indian Reserves and 2 Provincial Parks are represented in the above expenditures for 1946.*

APPENDIX

MILEAGE OF ROAD SURFACES

Municipality	COUNTY ROADS				
	Earth	Gravel or Stone	Bituminous Surfaces	Bituminous Pavements	Cement Concrete
Brant	2.3	52.7	40.2	6.5	1.0
Bruce	....	221.4	66.1	.5	1.3
Carleton	1.3	83.6	80.8	66.0	....
Dufferin	....	154.1	....	....	1.6
Elgin	....	223.9	23.6	2.5	0.2
Essex	....	161.0	34.6	5.1	44.7
Frontenac	....	118.3	63.5	....	....
Grey	....	246.8	47.0	....	0.7
Haldimand	2.3	105.3	37.9	5.8	3.9
Halton	....	104.7	20.1	....	21.3
Hastings	....	240.4	20.1	16.3	2.3
Huron	....	297.2	77.8	....	0.5
Kent	....	150.0	103.6	2.7	23.7
Lambton	....	184.2	40.2	....	2.6
Lanark	8.8	164.5	41.2	16.4	....
Leeds and Grenville	16.0	142.3	77.3	62.2	3.7
Lennox and Addington	....	102.5	30.0	30.0	....
Lincoln	....	19.6	123.0	2.9	12.6
Middlesex	....	415.1	19.1	0.7	40.5
Norfolk	3.8	40.6	157.2	....	1.2
Northumberland and Durham	....	192.5	2.5	34.7	....
Ontario	....	191.0	42.7	....	4.7
Oxford	....	146.3	40.4	8.3	....
Peel	....	112.0	8.6	10.6	5.4
Perth	....	171.8	17.7	....	....
Peterborough	....	188.0	17.1	....	....
Prescott and Russell	13.9	209.8	61.9	17.5	....
Prince Edward	....	90.2	67.2	8.9	8.6
Renfrew	19.3	151.4	49.3	....	1.0
Simcoe	....	248.4	10.8	0.2	....
Stormont, Dundas and Glengarry	....	196.7	265.4	....	1.2
Victoria	....	190.6	18.4	2.9	....
Waterloo	....	120.3	36.6	....	28.1
Welland	....	4.2	83.0	24.4	10.3
Wellington	....	286.4	44.1	....	12.9
Wentworth	....	63.8	81.5	3.6	4.5
York	12.6	80.5	147.3	73.8	18.8
Total County Area	80.3	5872.1	2097.8	402.5	257.3
Northern Organized Townships	....	....	....	....	....
Unorganized—Township and Mining Roads	....	....	....	....	....
GRAND TOTALS	80.3	5872.1	2097.8	402.5	257.3

No. 9

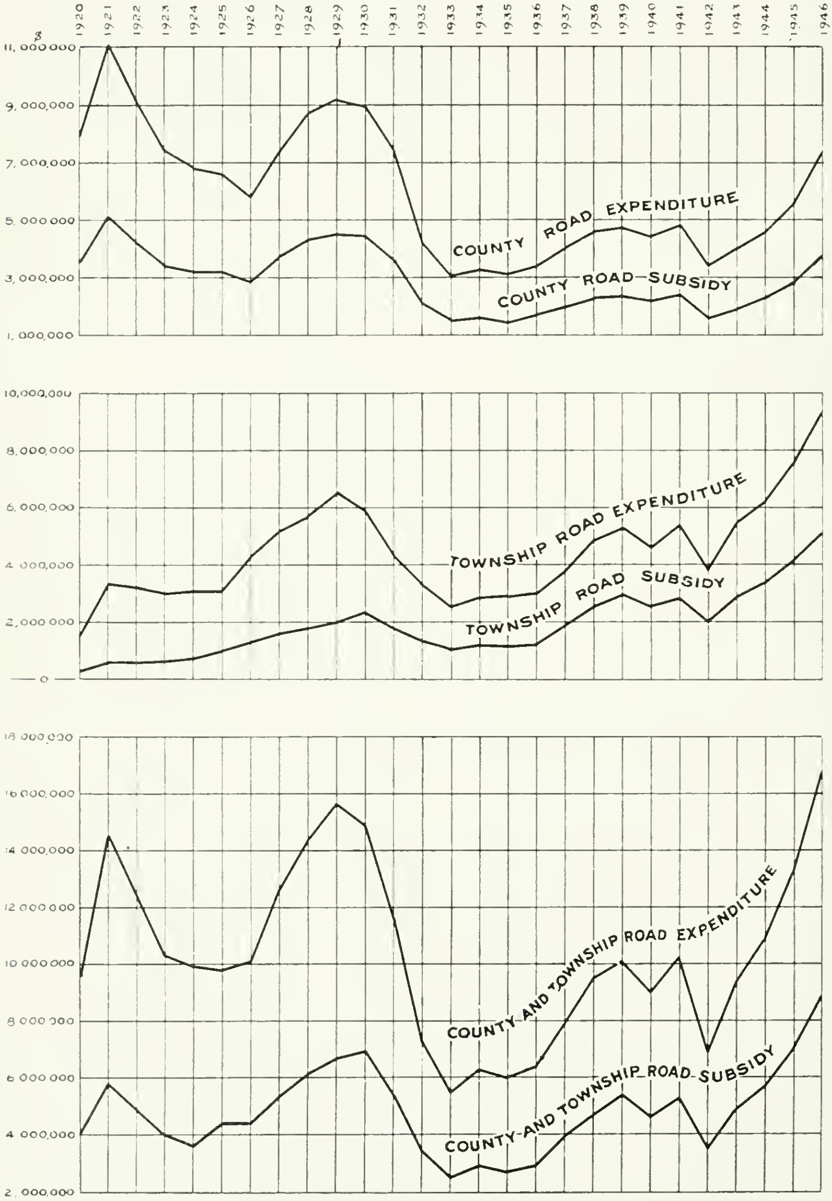
AT THE END OF 1946

	ORGANIZED TOWNSHIP ROADS					
Total	Earth	Gravel or Stone	Bituminous Surfaces	Bituminous Pavement	Cement Concrete	Total
102.7	70.7	476.5	2.8			550.0
289.3	168.0	1470.1				1638.1
231.7	317.2	750.4	8.6	0.6		1076.8
155.7	100.0	666.7				766.7
250.2	58.0	821.1	0.3			879.4
245.4	65.0	825.2			35.3	925.5
181.8	446.6	493.2	1.0			940.8
294.5	312.0	1807.1				2119.1
155.2	121.3	471.0	7.0	2.8		602.1
146.1	34.8	392.3			1.2	428.3
279.1	372.0	1121.3	1.0	1.0		1495.3
375.5	208.0	1349.4	1.3			1558.7
280.0	141.1	1181.8	3.0			1325.9
227.0	221.6	1210.7	2.3			1434.6
230.9	548.5	437.0				985.5
301.5	529.5	799.3	16.2	13.5		1358.5
162.5	277.7	369.6	0.5			647.8
158.1	198.5	447.2	9.8		3.6	659.1
475.4	150.5	1371.2			0.2	1521.9
202.8	407.1	512.0	7.5			926.6
229.7	916.6	1333.0				2249.6
238.4	236.3	907.2	0.2			1143.7
195.0	17.0	1023.5	5.3			1045.8
136.6	88.0	500.7				588.7
189.5	70.8	966.0	0.2			1037.0
205.1	304.5	618.8	1.4			924.7
303.1	623.1	320.4				943.5
174.9	56.4	314.2				370.6
221.0	1017.8	673.5	2.0			1693.3
259.4	493.5	1614.4				2107.9
463.3	512.4	807.0	5.6		5.1	1330.1
211.9	167.3	735.0				902.3
185.0	52.5	478.8			0.2	531.5
121.9	383.5	428.8	118.4	9.7	2.1	942.5
343.4	525.8	768.3			0.4	1294.5
153.4	86.5	479.6	1.3			567.4
333.0	514.1	1014.9	53.5	88.5	14.2	1685.2
8710.0	10814.2	29957.2	249.2	116.1	62.3	41199.0
	1546.8	5240.5	74.2	2.5	7.8	6871.8
	1982.5	2972.3				4954.8
8710.0	14343.5	38170.0	323.4	118.6	70.1	53025.6

APPENDIX No. 10

MUNICIPAL ROADS BRANCH

Graphs Showing Rise and Fall in Total Approved Expenditures by Organized Municipalities, and in Government Subsidies, by Calendar Work-Years from 1920 to 1946 Inclusive



NOTE: The number of counties is 37 for the whole period, but the number of townships represented has increased greatly since commencement in 1920. The largest increase was in 1938 when 215 northern townships were added.

Report of the Motor Vehicles Branch, 1946

To The Honourable George H. Doucett,
Minister of Highways.

Sir:

I have the honour to submit herewith a report of the activities of the Motor Vehicles Branch for the year 1946,

This report includes:

(1) Figures relating to motor vehicle permits and drivers' licenses issued during the license year ending December 31st, 1946.

(2) A statement showing the revenue derived from all sources during the fiscal year ending March 31st, 1947; and

(3) Reports pertaining to the work of the Accident Recording Division, Financial Responsibility Division and the Public Vehicle Division for the year 1946.

The summarized information contained in the following preamble is dealt with in more detail in the pages of this report.

Motor Vehicle Registrations

There were 711,106 motor vehicles registered during the year as compared with 662,719 for 1945 and 739,194 for the peak year, 1941. The 1946 total was 7.3 per cent above the total for the previous year and 3.8 per cent below the 1941 figure.

Drivers' Licenses

Chauffeurs' and operators' licenses issued during the year totalled 1,087,445, representing an increase of 115,593 or 11.9 per cent from the 1945 total (971,852) and an increase of 10.2 per cent from the 1941 registration total of 986,773. As compared with the 11.9 per cent advance in the number of drivers' licenses issued, there was an increase of 7.4 per cent in operators' licenses and a 20.5 per cent increase in the number of chauffeurs' licenses. There were 109,130 temporary instruction permits issued as compared with 81,928 for 1945 and 122,002 in 1941.

Revenue

The net revenue collected during the fiscal year ending March 31, 1947, amounted to $13,225,686.88 as compared with $9,774,584.92 for the previous year, representing an increase in revenue of $3,451,101.96 or 35.3 per cent.

Financial Responsibility Division

During 1946 there were 6,586 suspensions applied, requiring the filing of proof of financial responsibility.

This represented a percentage increase from the previous year's total (4,191) of 57.1.

Accident Recording Division

Accidents reported during the calendar year 1946 totalled 17,356 and resulted in the loss of 688 lives, injury to 12,228 persons and a property damage loss of $3,345,384. Corresponding figures for 1945: accidents reported, 13,458; persons fatally injured, 598; non-fatally injured, 9,804 and property damage loss, $2,249,271.

Public Vehicle Division

There were 9,810 Public Commercial Vehicles licensed during the year, representing an increase of 1,286 or 15.1 per cent from the 1945 total (8,524).

The registrations of Public Vehicles totalled 1,986, or 236 more than in 1945.

General

The Motor Vehicles Branch, though a relatively small division of the Public Service, is responsible for the administration of many provisions of the Highway Traffic, Public Vehicle and Commercial Vehicle Acts relative to the operation of motor vehicles. The introduction and acceptance of this new form of transportation and the rapid and tremendous increase in its use over a relatively short period of time, has caused perhaps more difficult and complex administrative problems to arise than have been found in the operation of other branches of the service. In view of the importance of the motor vehicle in our present day social and economic life, the work of the Branch is closely related to the welfare of the large mass of our people to as great. if not greater extent than that of any other department. There are few departments which have such regular and direct contact with such a large share of the adult population of the Province. As far as the large mass of our citizens is concerned, the annual renewal of the license or permit is the one time during the year when a transaction is completed between the individual citizen and a government bureau and undoubtedly many people have formed their opinion of the government service as the result of such contact with the Branch or its representatives throughout the Province.

In the administration of the work of the Branch it is recognized that such opinions are cumulative and continued effort has been made to keep abreast of changing conditions, to effect measures which have been proved successful in other jurisdictions and to serve the public to the limit of the facilities available.

In addition to the issuance of licenses and permits, the collection of fees and the administration of regulations relating to the licensing of drivers, the Branch serves as a central bureau for the compilation of accident statistics and drivers' records; deals with the suspension and revocation of licenses and permits; supervises the by-laws of municipal government bodies; provides machinery for the control of public vehicle operations; develops safety education programmes and materials, in addition to other duties of a related nature.

That it has been possible to carry out the various functions without serious complaint or conflict with the public is largely due to the loyalty and co-operation of the staff and the representatives of the Branch throughout the Province, to whom I would like to pay tribute at this time.

Respectfully submitted,

J. P. Bickell,
Registrar of Motor Vehicles.

NUMBER OF PERMITS AND LICENSES ISSUED

The number of drivers licensed and motor vehicles registered during each of the five years, 1942 to 1946, and the percentage change between the 1945 and 1946 totals are shown in the following tables:

CLASS OF LICENSE OR PERMIT	1942	1943	1944	1945	1946	% Change
Passenger Car	611,897	586,036	568,223	555,461	585,604	5.4 I
Commercial vehicle	94,318	96,103	97,869	98,339	115,002	16.9 I
Bus	1,518	1,614	1,743	1,895	2,215	16.9 I
Two-purpose vehicle	1,543	1,447	1,321	1,279	1,303	1.9 I
Motorcycle	6,104	6,415	5,901	5,745	6,982	21.5 I
TOTAL	715,380	691,615	675,057	662,719	711,106	7.3 I
Trailer	48,795	48,426	48,900	53,004	61,114	15.3 I
Operators	664,455	630,680	615,293	637,020	683,950	7.4 I
Chauffeurs	297,428	288,867	290,357	334,832	403,495	20.5 I
TOTAL	961,883	919,547	905,650	971,852	1,087,445	11.9 I
Instruction permits	76,390	70,112	69,974	81,928	109,130	33.2 I
Transfers	125,964	133,032	115,952	102,410	145,463	42.0 I
'In Transit' permits	3,341	581	1,010	2,998	11,707	290.5 I
'M' dealers	794	569	709	708	1,045	47.6 I
'MC' dealers	2	2	3	4	9	125.0 I

REVENUE OF MOTOR VEHICLES BRANCH
Fiscal Year 1946-1947

PERMITS AND LICENSES:				
Passenger		$ 5,020,773.80*		
Commercial		5,515,667.84*		
Two-purpose		6,789.80*		
Trailers		472,610.60*		
Motorcycles		6,205.20*		
DEALERS:				
Automobile	$29,290.00			
Motorcycle	25.50			
		29,315.50*		
Operators' and Instruction permits		728,017.90*		
Chauffeurs' licenses		451,835.90*		
Public Vehicles		361,487.49*		
Public Commercial Vehicles		400,716.50*		
Miscellaneous		64.20		
			$12,993,484.73*	
FEES:				
'In Transit' markers		6,414.95*		
Duplicate permits and licenses		13,937.00*		
Transfers		137,825.80*		
Searches and certificates		2,165.43*		
Lists		1,219.75		
Examinations (Head Office)		19,019.00		
			180,581.93*	
FINES:				
Breaches of Highway Traffic Act			51,620.22*	
				$13,225,686.88*

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*Indicates increase from previous fiscal year.

NUMBER OF MOTOR VEHICLES REGISTERED IN ONTARIO†

Year	Passenger	Commercial	Two Purpose	Motorcycle	Total
1903	178				178
1904	535				535
1905	553				553
1906	1,176				1,176
1907	1,530				1,530
1908	1,754				1,754
1909	2,452				2,452
1910	4,230				4,230
1911	11,339				11,339
1912	16,268			1,754	18,022
1913	23,700			2,900	26,600
1914	31,724			3,633	35,357
1915	42,346			4,174	46,520
1916	51,589	2,786		4,287	58,662
1917	78,861	4,929		5,180	88,970
1918	101,599	7,529		5,002	114,130
1919	127,860	11,428		5,516	144,804
1920	155,861	16,204		5,496	177,561
1921	181,978	19,554		4,989	206,521
1922	210,333	24,164		4,799	239,296
1923	245,815	28,612		4,325	278,752
1924	271,341	31,488		3,941	306,770
1925	303,736	34,690		3,748	342,174
1926	343,992	39,012		3,345	386,349
1927	386,903	43,442		3,159	433,504
1928	429,426	54,714		3,197	487,337
1929	473,222	55,218	8,226	3,541	540,207
1930	490,906	61,690	5,986	3,924	562,506
1931	489,713	64,256	4,177	4,070	562,216
1932	462,923	61,347	3,239	4,088	531,597
1933	453,314	59,760	2,909	4,370	520,353
1934	470,617	64,436	2,724	4,468	542,245
1935	489,610	67,590	2,370	4,506	564,076
1936	514,211	70,693	*	4,553	589,457
1937	541,802	75,687	1,847	4,582	623,918
1938	580,364	81,642	1,876	5,206	669,088
1939	593,693	82,206	1,893	5,099	682,891
1940	610,576	86,038	1,855	5,403	703,872
1941	636,624	95,022	1,654	5,894	739,194
1942	611,897	95,836	1,543	6,104	715,380
1943	586,036	97,717	1,447	6,415	691,615
1944	568,223	99,612	1,321	5,901	675,057
1945	555,461	100,234	1,279	5,745	662,719
1946	585,604	117,217	1,303	6,982	711,106

†Totals do not include trailer permits.

*Included with passenger vehicles.

REPORT OF ACCIDENT RECORDING DIVISION, 1946

The steadily increasing volume of motor vehicle travel which followed the lifting of restrictions on gasoline consumption was the major factor contributing to the increase in accidents during 1946. Of the 17,356 accidents reported, 629 resulted in fatal injuries to 688 persons; 8,541 *personal injury* accidents caused injury to 12,228 persons and 8,186 accidents involved *property damage* (in excess of $50.00) *only*.

The 629 *fatal* accidents represented an increase of 15.0 per cent from the total (547) for 1945 and a decrease of 15.8 per cent from the 1941 total of 747.

The 8,541 *personal injury* accidents made up approximately half (49.2%) of all accidents reported, or proportionately less than in 1945 or 1941. On the other hand, *property damage only* accidents were actually and relatively higher than for any previous year on record. It is believed that this was due to increased police attention to the reporting of such accidents and, to some extent, to the increased cost of repairs which brought a greater number of accidents within the fifty-dollar reportable limit. Accidents involving property damage only showed an advance of 40.5 per cent from the 1945 total as compared with the increase in the total number of accidents reported amounting to 29.0 per cent.

Of the 17,356 accidents reported during the year, more than 80 per cent or 14,049 mishaps came within three classifications: *collision with other motor vehicle*, 52.1 per cent; *collision with pedestrian*, 18.3 per cent and *collision with fixed object*, 10.5 per cent. There were 3,181 *collision with pedestrian* accidents reported during the year, which was 7.4 per cent above the total for 1945 but 17.1 per cent less than in 1941. As compared with 1941—the last full year prior to the application of restrictions to motor vehicle use—the most significant increase involved collisions with street cars, while the greatest decrease was in the *collision with bicycle* type of accident.

More than half (54.5%) of the accidents reported during 1946 occurred on *urban* (city, town or village) streets. The *urban* total was 9,452—an increase of 21.5 per cent from the 1945 total and a decrease of 7.5 per cent from the 1941 figure.

The 7,904 *rural* (King's highway, county and township road) accidents reported during 1946 made up 45.5 per cent of the provincial total and represented an increase of 39.1 per cent from the corresponding total for the previous year.

Accidents on *rural* roads involving *collisions between motor vehicles* totalled 4,124 (52.2% of rural accidents)—representing an advance of 39.7 per cent and 3.2 per cent from the 1945 and 1941 figures. The *non-collision* and *collision with fixed object* types both showed larger-than-average increases from the corresponding totals for 1945. Conversely, pedestrian accidents occurred relatively less frequently.

A 38.6 per cent increase in gasoline consumption during 1946, as compared with the 15.0 per cent advance in the number of persons fatally injured, resulted in the lowest death rate (11.0) on the basis of miles travelled in the recorded history of motor vehicle accident experience in the Province.

Additional information relating to Ontario accident experience during 1946 is supplied by the statistical summary appended hereto.

In considering the problem of motor vehicle accidents, it is generally recognized that the human element is the primary factor involved and efforts to bring about safer conditions must be put in operation with this fact in mind. Safe driving and safe walking require a knowledge and understanding of the traffic laws and regulations and of the rules of safe practice. Of equal, if not greater importance, safe behaviour in the use of the streets calls for a proper concept of right and wrong and a willingness to exercise restraint and to observe rules which have been designed for the protection of all citizens.

Accident prevention is thus largely a problem of education. Only by continued effort to make the public better informed as to hazards which exist and means of overcoming them can we bring about improved conditions.

REPORT OF PUBLIC VEHICLE DIVISION, 1945-1946

During the year ending March 31st, 1947, 9,810 Public Commercial Vehicles were licensed, an increase of 1,286 over the previous year. During the same period, Public Commercial Vehicle operators increased by 380 to a total of 4,037.

The Public Vehicles licensed in this period totalled 1,986, an increase of 236 and there were 198 Public Vehicle operators as against 176 in the preceding year.

School buses licensed in the 1946 fiscal year increased from 491 to 582 and operators from 461 to 549.

The special arrangements made during the war years to permit the operation of American motor vehicles carrying freight in Bond over Ontario highways between border points in the United States were terminated December 31st, 1945. During the general coal strike in the United States, permission was granted to resume such operations between the dates of May 24th, 1946, and June 15th, 1946, during which period 665 permits were issued.

The revenue of this Division for the fiscal year ending March 31st, 1947, amounted to $762,203.99.

This was really the beginning of the re-adjustment period. Discharged veterans were endeavouring to get re-established and a large number made application for and obtained Public Vehicle and Public Commercial Vehicle licenses. In addition to this, many operators increased their fleets and purchased new buses and trucks as they became available.

PUBLIC VEHICLE AND PUBLIC COMMERCIAL VEHICLE LICENSES ISSUED IN FISCAL YEAR ENDING MARCH 31st, 1947

Public Vehicles

	Operating Licenses	Vehicles
Public Vehicles	198	1,986
Public School Vehicles	549	582
	747	2,568

Public Commercial Vehicles

	Operating Licenses	Vehicles
Class A	259	3,701
" B	42	57
" C	751	1,673
" D	248	712
" E	669	862
" F	1,923	2,383
" H	145	422
	4,037	9,810

REPORT OF FINANCIAL RESPONSIBILITY DIVISION, 1946

As predicted in last year's report, there was a decided increase in the number of drivers' licenses and owners' permits suspended during 1946, pursuant to the provisions of the Highway Traffic Act requiring the filing of proof of financial responsibility. A total of 6,586 suspensions were applied under the provisions of this part of the Act following convictions for the various offences named in the Act. This was an increase of 2,395 or 57.1 per cent from the previous year's total. Approximately 50 per cent of the suspensions were applied as the result of convictions registered under the Highway Traffic Act for the offences of *speeding, racing, careless driving, operating without a driver's license* and *failing to remain at the scene of an accident.* Approximately 37 per cent were applied following convictions for criminal offences involving the use of a motor vehicle, including: *reckless and dangerous driving, drunk driving, leaving the scene of an accident, criminal negligence, manslaughter,* etc. The remainder were applied for failure to satisfy judgments or were cases where proof of financial responsibility had been filed following a conviction for one of the named offences but such proof was cancelled and, as two years had not elapsed since the conviction was registered, suspension was again necessary.

The Highway Traffic Act at the present time requires that every judgment for damages on account of injury to, or death of any person, or on account of damage to property in excess of $25.00, occasioned by a motor vehicle, must be satisfied. If an unsatisfied judgment is reported to the Department in the prescribed form, the drivers' licenses and owners' permits of the judgment debtors are suspended until the judgment is satisfied or arrangements have been made for payment and until the judgment debtors have filed proof of ability to satisfy any future judgments which might be secured against them. Undoubtedly this law has resulted in the payment of large numbers of judgments which would not have been paid if this compulsory law had not been in effect, but notwithstanding that fact, during the sixteen years that this legislation has been in effect there have been reported to the Department 1,304 unsatisfied judgments. In other words, 1,304 cases were persons who had secured judgments against the owners or operators of motor vehicles and were unable to compensate the persons who had suffered injuries or property damage. These judgments amounted to $874,343.38. Following the suspension of the drivers' licenses and motor vehicle permits of the judgment debtors, 620 of these judgments, amounting to $262,740.59, were paid in full and an additional 82 judgments amounting to approximately $100,000.00 are at present being paid in instalments. As of December 31st, 1946, there were, however, 684 judgments amounting to $611,602.79 which had not been satisfied and for which no arrangements had been made for settlement. The number of suspensions applied for failure to satisfy these judgments is greater than the total number reported because, in many cases, judgment was rendered against more than one person either because action was taken against both the owner and operator of the vehicle involved in the accident where these were two different persons, or because there was more than one vehicle involved.

Tables appended hereto show the number of suspension orders issued during the sixteen years the law has been in effect. Table I shows the number of suspensions applied following the registration of convictions for various offences. Table II shows, by years, the number of suspensions rescinded. Opposite each offence is shown the number which were rescinded upon the filing of proof of financial responsibility. The number classified as "expired" has reference to cases where proof of financial responsibility was not filed but where this requirement was waived after the expiration of a period of at least two years.

TABLE

FINANCIAL RESPONSIBILITY

September 1, 1930, to

OFFENCE	1930*	1931	1932	1933	1934	1935	1936	1937
Speeding	6	19	15	37	44	64	84	77
Racing	4	3	1	1	......	......	2	......
Operating Without Driver's License	323	1199	926	1306	147	231	212	271
Careless Driving	......	......	......	......	......	......	......	......
Reckless and Dangerous Driving	339	983	585	1064	1322	1546	1711	2191
Leaving Scene of an Accident	92	186	72	182	175	155	232	264
Drunk Driving	186	554	324	345	420	532	522	826
Criminal Negligence	9	34	29	36	32	25	26	54
Other Offences	41	79	57	69	88	99	95	98
Judgments	....	48	66	90	46	73	82	111
Cancellation of Proof of F. R.	7	212	469	976	690	822	894	1015
TOTAL	1007	3317	2544	4106	2964	3547	3860	4907

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*Four months only (Sept. 1/30 to Dec. 31/30).

†H. T. A. amended in 1934 so that suspensions required only where this offence resulted in injury or damage.

††Sec. 27 H. T. A. (Careless Driving) became effective July 1/39. Suspensions applied for this offence, 1012 for 1939 and 2494 for 1940, included under the classification "Reckless Driving".

No. I

SUSPENSIONS APPLIED, BY YEARS

December 31, 1946

1938	1939	1940	1941	1942	1943	1944	1945	1946	TOTAL
76	34	21	23	15	10	18	7	21	571
5	....	....	2	....	2	5	2	5	32
247	166	178	264	182	150	156	170	259	6387
....	††	††	3049	2445	1638	1674	1776	2896	13478
2533	2560††	3203††	743	660	474	450	438	792	21594
361	317	371	493	350	307	280	312	446	4595
1089	881	1013	1073	874	674	608	701	1098	11720
29	14	3	3	....	2	1	1	2	300
150	178	125	153	222	218	201	153	366	2392
106	150	158	137	108	89	73	73	73	1483
1050	911	1022	1066	1202	980	644	558	628	13146
5646	5211	6094	7006	6058	4544	4110	4191	6586	A 75698

TABLE

FINANCIAL RESPONSIBILITY

September 1, 1930, to

OFFENCE	1930*	1931	1932	1933	1934	1935	1936	1937
Speeding	3	10	14	29	36	42	55	63
Racing	....	3	4	2	....	....	2	....
Operating Without Driver's License	38	336	413	509	2531	99	95	84
Careless Driving	....	....	....	....	....	....	....	....
Reckless and Dangerous Driving	83	571	554	659	823	950	988	1124
Leaving Scene of an Accident	18	107	101	125	107	103	116	138
Drunk Driving	10	195	184	149	186	183	165	187
Criminal Negligence	3	12	15	13	14	18	7	19
Other Offences	3	16	16	19	21	35	27	20
Judgments	....	2	14	26	22	20	35	30
Cancellation of Proof of F. R.	3	100	405	518	523	496	447	409
Expired***	....	....	....	1	108	365	480	485
TOTAL	161	1352	1720	2050	4371	2311	2417	2559

*Four months only (Sept. 1/30 to Dec. 31/30).

**Sec. 27 H. T. A. (Careless Driving) became effective July 1/39. Rescinded suspensions applied under this section included under the classification "Reckless Driving" for 1939 and 1940.

***Suspensions rescinded without proof of Financial Responsibility being filed but where this requirement was waived because period had expired. Number of Financial Responsibility suspensions in effect as of Dec. 31/46—A—B or 28609.

No. II

SUSPENSIONS RESCINDED, BY YEARS

December 31, 1946

1938	1939	1940	1941	1942	1943	1944	1945	1946	TOTAL
51	31	11	12	9	4	9	3	6	388
1	2	......	2	......	......	1	3	3	23
52	40	48	52	38	32	35	34	64	4500
......	**	**	1240	1294	920	967	925	1426	6772
1184	1345	1641	638	242	192	147	135	243	11519
141	165	164	195	137	132	124	128	183	2184
193	219	260	252	205	182	172	164	247	3153
14	9	3	3	......	1	....	1	1	133
10	22	5	12	13	7	23	14	24	287
36	54	51	65	31	27	22	20	28	483
371	401	323	267	205	202	129	132	115	5046
649	739	805	1246	1108	1206	1988	1829	1592	12601
2702	3027	3311	3984	3282	2905	3617	3388	3932	B 47089

DURING YEAR, 1946.

r ns	NUMBER OF ACCIDENTS			
	Total	Fatal	Personal Injury	Property Damage Only
	12489	484	6402	5603
	1695	57	745	893
	277	16	106	155
	1913	52	924	937
	982	20	364	598
	17356	629	8541	8186

ns	NUMBER OF ACCIDENTS			
	Total	Fatal	Personal Injury	Property Damage Only
	9449	298	4716	4435
	703	21	323	359
	7192	310	3496	3386
	12		6	6
	17356	629	8541	8186

PEDESTRIAN	No. Accidents	
	Fatal	Non-Fatal
eet intersections:		
ith signal	4	107
gainst signal	4	113
o signal	44	607
iagonally	2	52
een intersections	59	815
getting on or off street	2	96
ety zone	1	5
ff other vehicle	4	28
ng in street	24	256
dway	2	31
ing on vehicle	2	14
hway	40	115
behind parked vehicle	18	354
ay	67	248
	6	61
	19	131
	14	46
affic	15	147
d	14	165
	217	2413
	279	2902

SIFICATION VICTIMS	Killed	Injured
	147	2693
	179	5136
	292	3161
ersons in horse-s, etc.)	7	130
	40	711
vers	20	297
sengers	3	100
	688	12228

14. NATURE OF INJURIES

	Fatal	Non-Fatal
1. Fractured skull	362	235
2. Fractured spine	55	35
3. Other fractures	18	2053
4. Concussion of brain	21	359
5. Severe general shock with bruises and cuts	6	6120
6. Slight shock and shake up		1588
7. Internal injuries	197	229
8. Other injuries (sprains, dislocations, wrenches, etc.)		778
9. Cuts by glass (only)	2	813
10. Drowned	6	
11. Burned	19	18
12. Asphyxiated	2	
13. Not stated		
Totals	688	12228

15. THE ROAD

	NUMBER OF ACCIDENTS			
	Total	Fatal	Personal Injury	Property Damage only
LOCATION				
1. Street intersection	5195	102	2658	2435
2. Between street intersections	3891	120	2213	1558
3. Rural intersection	1190	41	550	599
4. Straight road	4814	245	2190	2379
5. Private driveway	138	4	61	73
6. Curve	1158	51	489	618
7. Hill	556	27	225	304
8. R. R. crossing (a) Man on duty or gates	25	1	10	14
9. R.R. Crossing (b) Automatic signal	32	5	6	21
10. R.R. Crossing (c) Unguarded	139	23	46	70
11. Bridge	217	10	93	114
12. On ferry or dock	1			1
Totals	17356	629	8541	8186
TYPE				
1. Earth	167	7	87	73
2. Gravel or crushed stone	1579	81	669	829
3. Paved—hard surface	15610	541	7785	7284
Totals	17356	629	8541	8186
SURFACE				
1. Dry surface	11132	476	5911	4745
2. Wet surface	3038	84	1492	1462
3. Muddy surface	32	2	12	18
4. Snowy surface	1592	37	621	934
5. Icy surface	1562	30	505	1027
6. Not stated				
Totals	17356	629	8541	8186
CONDITION				
1. In good condition	17119	623	8423	8073
2. Defect in roadway	134	2	68	64
3. Road under repair	93	3	44	46
4. Obstruction not lighted	10	1	6	3
Totals	17356	629	8541	8186

J. P. BICKELL,
Registrar of Motor Vehicles.

F9.
2500—MAY 1943 (C521)

PROVINCE OF ONTARIO
MOTOR VEHICLES BRANCH

SUMMARY OF MOTOR VEHICLE ACCIDENT STATISTICS ONTARIO DURING YEAR, 1946.

1. TYPE OF ACCIDENT

TYPE OF ACCIDENT	NUMBER OF ACCIDENTS				NUMBER OF PERSONS KILLED											NUMBER OF PERSONS INJURED										
	Total	Fatal	Personal Injury	Property Damage only	Previous Year's Total All Ages	Total All Ages	0-4	5-14	15-35	36-54	55-64	65 and Over	Not Stated	Male	Female	Previous Year's Total All Ages	Total All Ages	0-4	5-14	15-35	36-54	55-64	65 and Over	Not Stated	Male	Female
1. Collision with pedestrian	3181	279	2902		279	284	41	54	31	37	37	84		204	80	2840	3068	364	986	502	486	284	343	103	1924	1144
2. Collision with other automobile	9043	110	2892	6041	101	125	3	4	47	50	14	7		95	30	3812	5158	108	233	2646	1279	373	233	286	2975	2183
3. Collision with horse drawn vehicle	108	3	52	53	7	3			2			1		2	1	79	77		10	34	20	5	6	2	58	19
4. Collision with R. R. train	196	29	62	105	56	46	1	2	23	9	7	4		30	16	135	107	1	8	50	29	3	5	11	84	23
5. Collision with street car	419	13	179	227	7	19			12	5	1	1		14	5	249	336	6	20	178	82	19	15	16	205	131
6. Collision with other vehicles	44		14	30	2											20	22	1	1	13	4	3			19	3
7. Collision with fixed object	1825	58	754	1013	49	68	2		40	15	4	7		55	13	959	1248	16	25	811	266	55	42	33	870	378
8. Collision with bicycle	732	40	692		42	40		14	10	7	5	4		37	3	679	715	1	288	270	63	32	21	40	580	135
9. Collision with motorcycle	305	19	274	12	11	20			17	3				18	2	251	356	2	5	305	21	3	4	16	322	34
10. Non-collision accident	1346	78	690	578	44	83	1	4	53	18	4	3		68	15	761	1097	22	45	714	205	61	24	26	757	340
11. Miscellaneous	157		30	127												19	44		3	24	14	2		1	29	15
TOTALS	17356	629	8541	8186	598	688	48	78	235	144	72	111		523	165	9804	12228	521	1624	5547	2469	840	693	534	7823	4405

2. HOUR OF OCCURRENCE

HOUR OF OCCURRENCE	NUMBER OF ACCIDENTS			
	Total	Fatal	Personal Injury	Property Damage Only
12 to 1 A.M.	626	22	298	306
1 to 2 A.M.	503	13	211	279
2 to 3 A.M.	325	16	127	182
3 to 4 A.M.	184	8	88	88
4 to 5 A.M.	134	3	49	82
5 to 6 A.M.	96	2	36	58
6 to 7 A.M.	159	9	70	80
7 to 8 A.M.	296	10	133	153
8 to 9 A.M.	465	11	225	229
9 to 10 A.M.	450	15	200	235
10 to 11 A.M.	533	17	245	271
11 to 12 A.M.	633	23	295	315
12 to 1 P.M.	808	22	390	396
1 to 2 P.M.	728	23	348	357
2 to 3 P.M.	906	15	422	469
3 to 4 P.M.	1030	30	482	518
4 to 5 P.M.	1217	36	665	516
5 to 6 P.M.	1601	58	886	657
6 to 7 P.M.	1372	64	702	606
7 to 8 P.M.	1262	46	661	555
8 to 9 P.M.	1002	45	529	428
9 to 10 P.M.	882	40	447	395
10 to 11 P.M.	1060	51	526	483
11 to 12 P.M.	942	38	438	466
Not stated	142	12	68	62
TOTALS	17356	629	8541	8186

3. DAY OF OCCURRENCE

DAY OF OCCURRENCE	NUMBER OF ACCIDENTS			
	Total	Fatal	Personal Injury	Property Damage Only
1. Sunday	2101	71	1052	978
2. Monday	2168	82	1064	1022
3. Tuesday	2266	67	1113	1086
4. Wednesday	2035	73	1018	944
5. Thursday	2284	73	1155	1056
6. Friday	2816	112	1327	1377
7. Saturday	3686	151	1812	1723
8. Not stated				
TOTALS	17356	629	8541	8186

4. THE DRIVER

THE DRIVER	NUMBER OF DRIVERS			
	Total	In Fatal Accidents	In Personal Injury Accidents	In Prop'rty Damage Accidents
SEX				
1. Male	25492	758	11199	13535
2. Female	1256	27	617	612
AGE				
1. Under 18 years	738	15	329	394
2. 18 to 24 years	6344	185	2836	3323
3. 25 to 40 years	11421	353	5039	6029
4. 41 to 54 years	5248	153	2320	2775
5. 55 to 64 years	1832	62	800	970
6. 65 years and over	691	12	331	348
7. Not stated	474	5	161	308
DRIVING EXPERIENCE				
1. Less than 3 months	191	2	104	85
2. 3 to 5 months	190	2	90	98
3. 6 to 12 months	350	5	163	182
4. 1 to 4 years	3586	88	1609	1889
5. 5 years and over	21014	580	9291	11143
6. Not stated	1417	108	559	750
CONDITION				
1. Intoxicated	376	9	139	228
2. Physical defect	94	6	48	40
3. Extreme fatigue	124	6	42	76
4. Normal	26154	764	11587	13803
LICENSE				
1. Licensed	26182	762	11534	13886
2. Unlicensed	566	23	282	261
3. Not stated				
Total number of drivers	26748	785	11816	14147
MISCELLANEOUS				
1. Hit and run	131	8	69	54
2. Hit and run apprehended	39	7	16	16
3. Arrested or summoned	4565	129	2099	2337
4. Non-residents arrested	140	7	61	72
Totals	4875	151	2245	2479

5. RESIDENCE OF DRIVER

RESIDENCE OF DRIVER	NUMBER OF DRIVERS			
	Total	In Fatal Accidents	In Personal Injury Accidents	In Prop'rty Damage Accidents
1. Ontario	25363	740	11245	13378
2. Quebec	221	5	90	126
3. Other provinces	80	2	31	47
4. Michigan	486	17	197	272
5. Ohio	53	3	21	29
6. New York	359	14	146	199
7. Illinois	25		12	13
8. Massachusetts	20		11	9
9. Pennsylvania	34	1	12	21
10. Other states	105	3	49	53
11. All others	2		2	
Totals	26748	785	11816	14147

6. ACTION OF DRIVER

ACTION OF DRIVER	Total	In Fatal Accidents	In Personal Injury Accidents	In Prop'rty Damage Only Accidents
1. Speed too fast for road or traffic conditions	1364	62	659	643
2. On wrong side of road	1415	44	602	769
3. Did not have right of way	1068	31	530	507
4. Cutting in	115	1	44	70
5. Passing standing street car	38		31	7
6. Passing on curve or hill	66	2	21	43
7. Passing on wrong side	46	2	15	29
8. Failed to signal	235	2	70	163
9. Car ran away—no driver	38		7	31
10. Drove off roadway	1172	55	524	593
Totals	5557	199	2503	2855

7. DIRECTION OF TRAVEL

DIRECTION OF TRAVEL	NUMBER OF VEHICLES			
	Total	Fatal	Personal Injury	Property Damage Only
1. Going straight	20197	649	9032	10516
2. Turning right	1050	18	441	591
3. Turning left	2588	51	1136	1401
4. Backing	330	12	163	155
5. Parked or standing still	2081	33	692	1356
6. Slowing down or stopping	720	8	304	408
7. Skidding	959	30	387	542
Totals	27925	801	12155	14969

8. AMOUNT OF PROPERTY DAMAGE

$ 3,345,384.

9. THE VEHICLE

THE VEHICLE	NUMBER OF VEHICLES			
	Total	In Fatal Accidents	In Personal Injury Accidents	In Prop'rty Damage Accidents
TYPE				
1. Passenger car	20831	518	9177	11136
2. Commercial vehicle	5330	221	2031	3078
3. Taxicab	742	12	275	455
4. Bus	461	21	218	222
5. Motorcycle	447	21	406	20
6. Trailer	14		3	11
7. All others	36	2	14	20
8. Not stated	64	6	31	27
Totals	27925	801	12155	14969
CONDITION				
1. In apparent good condition	26790	744	11589	14457
2. Brakes defective	422	28	228	166
3. Steering mechanism defective	143	1	61	81
4. Glaring headlights	20		6	14
5. One or both headlights out	102	4	46	52
6. Tail-light out or obscured	48	2	23	23
7. No chain (wet or icy road)				
8. Other defects in equipment	137	5	60	72
9. Puncture or blow-out	134	9	73	52
10. Not stated	129	8	69	52
Totals	27925	801	12155	14969
BRAKES				
1. Two-wheel	805	38	563	204
2. Four-wheel	26990	755	11523	14712
3. Not stated	130	8	69	53
Totals	27925	801	12155	14969
TIRES				
1. Pneumatic (high pressure)	1435	57	572	806
2. Semi-balloon or balloon	26354	736	11512	14106
3. Solid rubber	6		2	4
4. Not stated	130	8	69	53
Totals	27925	801	12155	14969
INSURANCE				
1. Insured	17648	465	7362	9821
2. Un-insured	8530	262	4056	4212
3. Not stated	1747	74	737	936
Totals	27925	801	12155	14969

10. Weather Conditions

Weather Conditions	NUMBER OF ACCIDENTS			
	Total	Fatal	Personal Injury	Property Damage Only
1. Clear	12489	484	6402	5603
2. Cloudy	1695	57	745	893
3. Fog	277	16	106	155
4. Rain	1913	52	924	937
5. Snow or Sleet	982	20	364	598
6. Not stated				
Totals	17356	629	8541	8186

11. Light Conditions

Light Conditions	NUMBER OF ACCIDENTS			
	Total	Fatal	Personal Injury	Property Damage Only
1. Daylight	9449	298	4716	4435
2. Dusk	703	21	323	359
3. Dark	7192	310	3496	3386
4. Not stated	12		6	6
Totals	17356	629	8541	8186

12. THE PEDESTRIAN

THE PEDESTRIAN	No. Accidents	
	Fatal	Non-Fatal
ACTIONS		
Crossing at street intersections.		
1. (a) With signal	4	107
2. (b) Against signal	4	113
3. (c) No signal	44	607
4. (d) Diagonally	2	52
5. Crossing between intersections	59	815
6. Waiting for or getting on or off street car	2	96
7. Standing in safety zone	1	5
8. Getting on or off other vehicle	4	28
9. Children playing in street	24	256
10. At work in roadway	2	31
11. Riding or hitching on vehicle	2	14
12. Walking on highway	40	115
13. Coming from behind parked vehicle or object.	18	354
14. Crossing highway	67	248
15. On sidewalk	6	61
CONDITION		
1. Intoxicated	19	131
2. Physical defect	14	46
3. Confused by traffic	15	147
4. View obstructed	14	165
5. Normal	217	2413
Totals	279	2902

13. CLASSIFICATION OF VICTIMS

CLASSIFICATION OF VICTIMS	Killed	Injured
1. Drivers	147	2693
2. Passengers	179	5136
3. Pedestrians	292	3161
4. Others — (Persons in horse drawn vehicles, etc.)	7	130
5. Bicyclists	40	711
6. Motorcycle drivers	20	297
7. Motorcycle passengers	3	100
Totals	688	12228

14. NATURE OF INJURIES

NATURE OF INJURIES	Fatal	Non-Fatal
1. Fractured skull	362	235
2. Fractured spine	55	55
3. Other fractures	18	2053
4. Concussion of brain	21	359
5. Severe general shock with bruises and cuts	6	6120
6. Slight shock and shake up		1588
7. Internal injuries	197	229
8. Other injuries (sprains, dislocations, wrenches, etc.)		778
9. Cuts by glass (only)	2	813
10. Drowned	6	
11. Burned	19	18
12. Asphyxiated	2	
13. Not stated		
Totals	688	12228

15. THE ROAD

THE ROAD	NUMBER OF ACCIDENTS			
	Total	Fatal	Personal Injury	Property Damage only
LOCATION				
1. Street intersection	5195	102	2658	2435
2. Between street intersections	3891	120	2213	1558
3. Rural intersection	1190	41	550	599
4. Straight road	4814	245	2190	2379
5. Private driveway	138	4	61	73
6. Curve	1158	51	489	618
7. Hill	556	27	225	304
8. R. R. crossing (a) Man on duty or gates.	25	1	10	14
9. R.R. Crossing (b) Automatic signal	32	5	6	21
10. R.R. Crossing (c) Unguarded	139	23	46	70
11. Bridge	217	10	93	114
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Totals	17356	629	8541	8186
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1. Earth	167	7	87	73
2. Gravel or crushed stone.	1579	81	669	829
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3. Muddy surface	32	2	12	18
4. Snowy surface	1592	37	621	934
5. Icy surface	1562	30	505	1027
6. Not stated				
Totals	17356	629	8541	8186
CONDITION				
1. In good condition	17119	623	8423	8073
2. Defect in roadway	134	2	68	64
3. Road under repair	93	3	44	46
4. Obstruction not lighted	10	1	6	3
Totals	17356	629	8541	8186

J. P. BICKELL,
Registrar of Motor Vehicles.

ANNUAL REPORT

OF

THE COMMISSIONER

OF THE

ONTARIO PROVINCIAL POLICE

FROM

JANUARY 1st, 1947 TO DECEMBER 31st, 1947

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 34, 1948

ONTARIO

TORONTO
Printed and Published by
Baptist Johnston, Printer to the King's Most Excellent Majesty
1948

To His Honour Ray Lawson, Esq., O.B.E.
Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present to Your Honour the Report of the Commissioner of the Ontario Provincial Police covering the period January 1st, 1947 to December 31st, 1947.

Respectfully submitted,
L. E. BLACKWELL,
Attorney-General.

Attorney-General's Department.

ONTARIO PROVINCIAL POLICE

Commissioner
W. H. STRINGER, O.B.E.

Deputy Commissioner
W. C. KILLING

Criminal Investigation Branch
A. H. WARD, CHIEF INSPECTOR

Inspectors

E. C. GURNETT, M.M.
W. J. FRANKS
W. H. KENNEDY
A. MacLEOD
G. McKAY
W. H. LOUGHEED
F. C. KELLY
L. NEIL
T. R. WRIGHT
C. H. WOOD
W. H. CLARK

PROVINCIAL CONSTABLE G. LONG (Photographer)

Staff Inspectors

A. MOSS
E. T. DOYLE
F. B. CREASY

Liquor Control Investigation Branch
P. WALTER, Staff Inspector
J. BARTLETT, Sergeant
A. M. SHAUGHNESSY, Sergeant

Anti-Gambling Branch
W. G. TOMLINSON, Inspector

Firearms Registration Branch
W. H. BOYD, Registrar

Radio Communications Branch
T. H. TRIMBLE, Inspector

General Headquarters Garage
E. HALES, Superintendent

District Inspectors

No. 1	District,	Chatham	District	Inspector	W. A. SCOTT
No. 2	"	London	"	"	C. A. JORDAN
No. 3	"	Dundas	"	"	A. R. KNIGHT
No. 4	"	Niagara Falls..........	"	"	C. F. AIREY, M.S.M.
No. 5	"	Aurora	"	"	E. HAND
No. 6	"	Mount Forest..........	"	"	W. A. PAGE
No. 7	"	Barrie	"	"	R. COX
No. 8	"	Belleville	"	"	H. E. THOMPSON
No. 9	"	Perth	"	"	T. W. COUSANS
No. 10	"	Haileybury	"	"	S. OLIVER
No. 11	"	Sudbury	"	"	T. WILKINSON
No. 12	"	Cochrane	"	"	A. McDOUGALL
No. 13	"	Port Arthur............	"	"	P. T. HAKE
No. 14	"	Kenora	"	"	H. STOREY

In Memoriam

Provincial Constable A. P. McNamara, Welland Detachment, No. 4 District, Niagara Falls, Appointed January 1st, 1941, died in the Niagara Peninsular Sanitarium from tubercular disease, January 5th, 1947.

Provincial Constable R. J. Spofford, No. 11 District Headquarters, Sudbury, Appointed January 1st, 1941, died in Christie Street Hospital from brain tumor, March 27th, 1947.

Report of the Commissioner of Police For Ontario

From January 1st, 1947 to December 31st, 1947

ONTARIO PROVINCIAL POLICE,
Headquarters, Toronto.

THE HONOURABLE THE ATTORNEY-GENERAL,
Parliament Buildings, Toronto, Ontario.

SIR:

I have the honour to submit herewith my Annual Report covering the work of the Ontario Provincial Police, together with statistical data for the period of January 1st, 1947 to December 31st, 1947.

Since publication of my last Annual Report an Act to amend the Police Act, 1946, has been enacted. This Act, which was proclaimed on the 1st day of June, 1947, is cited as The Police Amendment Act, 1947.

In addition to a number of amendments to sections of The Police Act, 1946, it is interesting to note that The Police Amendment Act provides for the bargaining and arbitration between full time members of a police force and the Council of a municipality or Board, where a Board exists, for the purpose of defining, determining and providing for remuneration and working conditions, except such working conditions as may be governed by any regulations made pursuant to this Act.

However, a member of a police force shall not remain or become a member of any trade union or of any organization which is affiliated directly or indirectly with a trade union.

Under Section 42b(1) of The Police Amendment Act, provision is made for the appointment of special constables by the Commissioner of Police for Ontario, a County Court judge, a District Court Judge or a Magistrate.

Particular notice is drawn to the provisions of Section 42c(1) indicating that every person, including a member of a police force, who causes or attempts to cause, or does any act calculated to cause disaffection among the members of a police force, shall be guilty of an offence and liable to a penalty of not more than $500.00 or to imprisonment for a term not exceeding one year or both.

Authority must be obtained from the Attorney-General before a prosecution is instituted under this Section and following a conviction where a person is a member of a police force he shall cease to be a member and shall not thereafter be appointed to any police force.

During the past year several additional municipalities have entered into an agreement for policing by the Ontario Provincial Police and it is most gratifying to note that, without exception, splendid co-operation has been rendered by those concerned resulting in maximum law enforcement efficiency. Since inception of The Police Act, 1946,municipal officials of the designated areas have co-operated fully with the Ontario Provincial Police in conforming with the provisions of the Act and, in future years, there is no doubt that this standardization of policing througout the Province will increase in popularity and effectiveness. To emphasize this fact I quote hereunder extract taken from an address made by a Mayor of a town which the members of this force are policing under contract:-

> "During the past year we were called upon to make a momentous decision and that was the bringing of a Provincial Police detachment to our town. I do not regret the decision I made. **We have had the best and most efficient policing the town has ever had.** The citizens of this town have had to acknowledge that fact. The one year term of the Provincials expires on May 1st and I have no other alternative than to recommend a renewal of their contract for another year."

A total of 94 members of this force are performing law enforcement duties, under agreement, in the following municipalities:

MUNICIPALITY	Effective Date	Number of Personnel
Ajax, Ontario County	1 June 1946	2
Alexandria, Glengarry County	15 Sept. 1945	2
Amherstburg, Essex County	1 Sept. 1946	2
Arnprior, Renfrew County	15 Oct. 1945	3
Atikokan Improvement District, Kenora District	1 Oct. 1946	1
Barrie, Simcoe County	1 July 1946	11
Bayham Township, Elgin County	1 June 1946	1
Beamsville, Lincoln County	1 May 1946	1
Beardmore, Thunder Bay District	1 Jan. 1947	1
Bertie Township, Welland County	1 April 1947	2
Bradford, Simcoe County	1 May 1947	2
Bobcaygeon, Victoria County	15 June 1947	1
Brantford Township, Brant County	1 Nov. 1945	1
Cobalt, Timiskaming District	1 Aug. 1946	2
Cochrane, Cochrane District	1 July 1946	3
Colchester South Township, Essex County	4 Dec. 1946	1
Dryden, Kenora District	1 July 1947	3
Elora, Wellington County	1 Mar. 1947	1
Eganville, Renfrew County	1 Oct. 1945	1
Espanola Townsite, Sudbury District	1 June 1945	1
Fonthill, Welland County	1 April 1947	1
Georgetown, Halton County	17 Feb. 1947	3
Goderich, Huron County	1 July 1947	4
Gosfield South, Essex County	4 Feb. 1947	1
Hearst, Cochrane District	1 May 1946	2
Ingersoll, Oxford County	1 May 1947	5
Maidstone Township, Essex County	1 April 1947	1
Malton, Peel County	16 Oct. 1946	2
Merritton, Lincoln County	1 May 1947	4
Mersea Township, Essex County	22 Nov. 1946	1
Mount Forest, Wellington County	1 May 1946	2
McGarry Township, Temiskaming District	1 Jan. 1947	2
McKim Township, Sudbury District	1 June 1945	2
Neelon & Garson Township, Sudbury District	1 Feb. 1946	2
Nipigon Township, Thunder Bay District	9 July 1946	1
Penetanguishene, Simcoe County	18 July 1947	4
Port Dalhousie, Lincoln County	16 Nov. 1946	1
Rockcliffe Park, Carleton County	1 June 1945	2
Sandwich West, Essex County	15 Dec. 1947	2
Seaforth, Huron County	15 Sept. 1947	2
Schreiber Township, Thunder Bay District	1 Mar. 1946	1
Sioux Lookout, Kenora District	1 July 1946	2
Terrace Bay Townsite, Thunder Day District	6 Nov. 1946	1
Uxbridge, Ontario County	1 Nov. 1946	1
Vankleek Hill, Prescott County	1 April 1946	1
Wainfleet Township, Wentworth County	1 June 1947	1
Wasaga Beach Improvement District, Simcoe Ccunty	1 May 1946	1 plus 4 part time

Radio Communication:

Under an Order-in-Council dated the 30th January, the Committee of Council authorized the Honourable the Attorney-General to enter into an agreement with the Canadian General Electric Company Limited, for the supply, installation and maintenance of a Frequency-Modulated Radio Communications System to cover the area embraced by the Southern eleven Ontario Provincial Police Districts, extending from Windsor in the West to Ottawa and Cornwall in the East, and as far North as Parry Sound, Burk's Falls and Pembroke, and later, the more heavily populated parts of Northern Ontario. The Radio Communications Branch of the Force was then organized immediately following this action and plans made to radio equip 260 Department automobiles and create eleven 250 Watt Fixed Stations and Thirty 60 Watt Fixed Stations throughout the territory.

After considerable survey and planning on the part of Professor J. E. Reid, the Consulting Engineer and Officers of the Branch, the individual district allocation was decided upon and the following described work on the programme completed by the end of the year:-

District No. 1—Counties of Essex and Kent

Stations - CHATHAM (250 Watt) ,ESSEX (60 Watt)

Suitable site selected and purchased for 250 Watt D.H.Q. Station near Chatham and Transmitter Building and 200 foot steel self-supporting antenna tower erected thereon. Necessary power and telephone facilities secured. 60 Watt Station completed at Essex Detachment. Five Department automobiles fully radio equipped.

District No. 2—Elgin, Lambton, Middlesex and Oxford

Stations - LONDON (250 Watt). WOODSTOCK (60 Watt) ST. THOMAS (60 Watt). SARNIA (60 Watt).

Suitable site selected and purchased for 250 Watt D.H.Q. Station near London and Transmitter Building and 200 foot steel self-supporting antenna tower erected thereon. Necessary power and telephone facilities secured. All radio equipment installed and station completed and ready for operation. Sixty Watt Stations at Woodstock, St. Thomas and Sarnia Detachments partially established. Twenty-four Department automobiles fully radio equipped.

District No. 3—Counties of Brant, Halton, Norfolk and Wentworth

Stations - DUNDAS (250 Watt). OAKVILLE (60 Watt). SIMCOE (60 Watt). BRANTFORD (60 Watt).

Suitable site selected and purchased for 250 Watt D.H.Q. station near Dundas and Transmitter Building and 200 foot steel self-supporting antenna tower erected thereon. Necessary power and telephone facilities secured. Station incomplete. Sixty Watt Station completed at Oakville Detachment. Sixty Watt Stations partially complete at Simcoe and Brantford Detachments. Twenty-four Department automobiles fully radio equipped.

District No. 4—Counties of Haldimand. Lincoln and Welland

Stations - NIAGARA FALLS (250 Watt). WELLAND (60 Watt). CAYUGA (60 Watt). ST. CATHARINES (60 Watt).

Suitable site selected and purchased for 250 Watt D.H.Q. station near Niagara Falls and Transmitter Building and 200 foot steel self-supporting antenna tower erected thereon. Necessary power and telephone facilities secured. Station incomplete. Sixty Watt stations completed at Welland, Cayuga and St. Catharines Detachments. Twenty-two Department automobiles fully radio equipped.

District No. 5—Counties of Ontario, Peel and York

Stations - AURORA (250 Watt). WHITBY (60 Watt).
BRAMPTON (60 Watt).

Suitable site selected and purchased for 250 Watt D.H.Q. Station near Aurora and Transmitter Building and 300 foot steel self-supporting antenna tower erected thereon. Necessary power and telephone facilities secured. Station completed and in operation. Sixty Watt stations completed and put into operation at Whitby and Brampton Detachments. Thirty-nine Department automobiles fully radio equipped and operating in this District and Toronto area.

District No. 6—Counties of Bruce, Grey, Huron, Perth, Waterloo and Wellington

Stations - MOUNT FOREST (250 Watt). GUELPH (60 Watt). KITCHENER (60 Watt). STRATFORD (60 Watt). GODERICH (60 Watt). WALKERTON (60 Watt). OWEN SOUND (60 Watt).

Suitable site selected and purchased for 250 Watt D.H.Q. Station near Mount Forest and Transmitter Building and 200 foot steel self-supporting antenna tower erected thereon. Necessary power and telephone facilities secured. Station incomplete. Sixty Watt stations partially completed at Guelph, Kitchener, Stratford, Goderich, Walkerton and Owen Sound. Eight Department automobiles fully radio equipped.

District No. 7—Counties of Dufferin, Simcoe, Muskoka and Parry Sound

Stations - BARRIE (250 Watt). BURK'S FALL (60 Watt).
BRACEBRIDGE (60 Watt). PARRY SOUND (60 Watt).

Suitable site selected and purchased for 250 Watt D.H.Q. Station near Barrie and Transmitter Building and 200 foot steel self-supporting antenna tower erected thereon. Necessary power and telephone facilities secured. Radio equipment installed. Station almost complete. Sixty Watt Stations partially created at Burk's Falls, Bracebridge and Parry Sound. Eighteen Department automobiles fully radio equipped.

District No. 8—Counties of Durham, Northumberland, Peterborough, Victoria and Haliburton

Stations - PETERBOROUGH (250 Watt). COBOURG (60 Watt).
LINDSAY (60 Watt).

Suitable site selected and purchased for 250 Watt D.H.Q. Station near Peterborough and Transmitter Building and 200 foot self-supporting antenna tower partially completed thereon. Necessary power and telephone facilities arranged for. Sixty Watt Stations partially completed at Cobourg and Lindsay. Six Department automobiles fully radio equipped.

District No. 9—Counties of Hastings, Lennox, Addington, Frontenac and Prince Edward

Stations - BELLEVILLE (250 Watt). NAPANEE (60 Watt)
KINGSTON (60 Watt). PICTON (60 Watt).

Suitable site selected and purchased for 250 Watt D.H.Q. Station near Belleville and Transmitter Building and 200 foot steel self-supporting antenna tower partially completed thereon. Necessary power and telephone facilities arranged for. Sixty Watt Stations partially completed at Napanee, Kingston and Picton. Six Department automobiles fully radio equipped.

District No. 10—Counties of Lanark, Leeds, Grenville and Renfrew

Stations - PERTH (250 Watt). BROCKVILLE (60 Watt). PEMBROKE (60 Watt). ARNPRIOR (60 Watt).

Suitable site selected and purchased for 250 Watt D.H.Q. station near Perth. Transmitter Building completed and 200 foot steel self-supporting antenna tower partially erected thereon. Necessary power and telephone facilities secured. Sixty Watt Stations partially completed at Brockville, Pembroke and Arnprior. Six Department automobiles fully radio equipped.

District No. 11—Counties of Stormont, Dundas, Glengarry, Prescott, Russell and Carleton

Stations - CORNWALL (250 Watt). OTTAWA (60 Watt)

Suitable site selected and purchased for 250 Watt D.H.Q. Station near Cornwall. Transmitter Building completed and 200 foot steel self-supporting antenna tower partially erected thereon. Necessary power and telephone facilities secured. Sixty Watt Station at Ottawa partially completed. Five Department Automobiles fully radio equipped.

The two frequencies allocated in 1947 by the Federal authorities for use in the system are in the 42-44 megacycle band.

The required licenses for the system were also issued by the Department of Transport at Ottawa and the following Call signs allotted the stations:—

District No. 1	— Chatham	—VG3S
	— Essex	—VF9A
District No. 2	— London	—CF7Z
	— Woodstock	—VF9B
	— St. Thomas	—VF9C
	— Sarnia	—VF9D
District No. 3	— Dundas	—CF7Y
	— Oakville	—VF9E
	— Simcoe	—VF9F
	— Brantford	—VF9G
District No. 4	— Niagara Falls	—CF7X
	— Welland	—VF9H
	— Cayuga	—VF9I
	— St. Catharines	—VF9J
District No. 5	— Aurora	—VF9Z
	— Whitby	—VF9K
	— Brampton	—VF9L
District No. 6	— Mount Forest	—VG3T
	— Guelph	—VF9M
	— Kitchener	—VF9N
	— Stratford	—VF9O
	— Goderich	—VF9P
	— Walkerton	—VF9Q
	— Owen Sound	—VF9R

District No. 7 — Barrie —CF7W
— Burks Falls —VF9S
— Bracebridge —VF9T
— Parry Sound —VF9U

District No. 8 — Peterborough —VG3U
— Cobourg —VF8P
— Lindsay —VF8Q

District No. 9 — Belleville —VG3V
— Napanee —VF8M
— Kingston —VF8N
— Picton —VF8O

District No. 10 — Perth —VG3W
— Brockville —VF9W
— Pembroke —VF9X
— Arnprior —VF9Y

District No. 11 — Cornwall —VG3X
— Ottawa —VF9V

Each mobile unit or radio car in the system has also been assigned a number for identification purposes. These numbers were painted on the sides and dash-boards of the cars and run according to District—e.g., the first digit or two digits were made to correspond with the number of the police District in which the car is located. No call letters are alloted mobile units.

Each District Headquarters radio office has also been supplied with a specially prepared magnetic map for the purpose of enabling the Dispatchers to spot and control radio car locations, especially during the course of serious running-crime. This type of chart is something of an innovation in this country and basically consists of a steel backed paper map with small powerful red alnico magnets representing the mobile units. Each one of the magnets has fastened to it a plastic indicator carrying a car number. This map is far superior to the conventional type employing electris lights, pins etc. and is of the sort recently introduced into radio communications by the Michigan and Indiana State Police.

The Communication facilities possible will be:

(a) POINT-TO-POINT SERVICE - that is, a two-way communication between fixed points, such as General Headquarters to District Headquarters, District Headquarters to Detachments, Detachment Office to Detachment Office.

(b) FIXED-STATION-TO-MOBILE-UNIT-SERVICE—That is, two-way communication between fixed stations and cars.

(c) CAR TO CAR SERVICE—Two-way communication between cars over a limited distance of from 7 to 20 miles.

On November 27th, 1947, the system was officially put into operation in the No. 5 and Toronto District area by Commissioner William H. Stringer, who broadcast the first police radio message from the Dispatch Office in General Headquarters, Queen's Park, Toronto, at precisely 3.00 p.m. on that date. Between then and the end of the year, 2,090 transmissions were made to cars and stations in the District. Communication difficulties in the area were removed and the supervision of the patrol cars greatly facilitated.

One instance especially worthy of mention is the occasion on Saturday, December 20th, 1947, when the system proved of great value to Officers from No. 5 D.H.Q. Aurora, in effecting the arrest of two heavily armed gunmen in the persons of Reginald Floody and George Shullman of Oshawa City, driving in a stolen automobile, for their part in the hold-up robbery of Byrnell's General store at Lindsay, Ontario, that date.

It is expected to have the net-work in operation in the entire eleven southern districts early in 1948. When this is realized, the effectiveness of the force as a Law Enforcement Body will be greatly increased and there is no doubt that in the years to come, many of this Province's important Criminal captures and emergencies will be routed through the radio facilities of the Ontario Provincial Police.

Transfer of District Headquarters

As the result of an extensive survey by Professor J. E. Reid, Radio Consulting Engineer, it was found necessary to transfer the following District Headquarters to realize complete radio coverage in the Districts concerned:—

No. 1 District—Counties of ESSEX and KENT:

The Headquarters of this District have been transferred from the City of Windsor to the City of Chatham where suitable accomodation has been leased in the "Todgham" Building, 78 William Street South, with ample facilities for the operation of the radio communication system. These Headquarters are located in close proximity to the tower site and more centralized in the district to permit efficient operation.

No. 2 District—Counties of BRANT, NORFOLK, HALTON and WENTWORTH:

The Headquaters of this District have been transferred from the City of Hamilton to the Town of Dundas where suitable quarters, containing ample facilities for the operation of the radio communication system have been leased in a building at 101 King Street West. The tower site for this 250 Watt Station is in close proximity and the transfer of this Headquarters was essential for maximum radio efficiency throughout the district.

No. 3 District—Counties of BRUCE, GREY, HURON, PERTH, WELLINGTON and WATERLOO:

It was also considered necessary to transfer the Headquarters of this District from the City of Kitchener to the Town of Mount Forest.

In this instance, we were fortunate in leasing most satisfactory accomodation from the Corporation of the Town in their Municipal building.

These quarters, in addition to containing all facilities in connection with the radio communication system, provides a lock-up equipped with steel cells, also excellent parking facilities for Departmental mobile equipment on municipal property.

In each case where our District Headquarters have been transferred, consideration has been given to the terrain, altitude and geographical setup of the new location which, from an engineering standpoint, are most conducive to the efficient function of a modern radio communication system.

Formation of New Districts

Approval has been given for the division of the following Districts:

District No. 8 with Headquarters at BELLEVILLE:

District No. 9 with Headquarters at Perth:

This division was found necessary due to the extensive area comprising both districts, making it practically impossible for the District Officers to provide the close supervision necessary to maintain the efficiency of the Force.

Another factor making the division necessary is the increasing number of municipalities entering into contract with this Force for policing under the provisions of The Police Act. These contracts place additional responsibility upon the District Officers to provide and supervise the personnel necessary to perform the requisite duties.

No. 8 District is comprised of ten counties with twenty-three Provincial Police Detachments and personnel of forty-six of all ranks.

When the new Districts commence to function January 1st, 1948, this District will be divided as follows:

No. 8 District with Headquarters at PETERBOROUGH: will include the Counties of DURHAM, NORTHUMBERLAND, PETERBOROUGH, VICTORIA and HALIBURTON.

No. 9 District with Headquarters at BELLEVILLE: This District will include the Counties of HASTINGS, LENNOX and ADDINGTON, FRONTENAC and PRINCE EDWARD.

The Peterborough Area, which has always been a popular and most active section of the Province, has grown in importance since the paving of No. 7 Highway which now permits a thoroughfare between central and eastern Ontario. Our highway patrol duties have, therefore, shown a sharp increase especially during the summer seasons and there is no doubt whatsoever that the establishment of a District Headquarters at Peterborough will enhance law enforcement in that particular area.

The division of No. 9 District, which at present comprises ten counties with thirty Provincial Police Detachments and a personnel of sixty-three of all ranks has been under consideration for some considerable time, and now that it has been approved the new allocation of territory will be as follows:—

No. 10 District with Headquarters at PERTH: Will comprise the Counties of LANARK, LEEDS, GRENVILLE and RENFREW.

No. 11 District with Headquarters at CORNWALL: will comprise the Counties of STORMONT, DUNDAS, GLENGARRY, PRESCOTT, RUSSELL and CARLETON.

There are fourteen King's Highways running through the present No. 9 District, having a total combined mileage in the District of 1,178 miles and in order to supervise, assist and instruct all personnel in the District, especially in the northern area and along the Ontario-Quebec border, extremely long distances have to be travelled from No. 9 District Headquarters at Perth, with the result that a great deal of time is lost in actual supervision.

The division of this District will also make use of our present installation of a 250 Watt Radio Station at Cornwall and result in equal territorial and personnel distribution, and will not in any way conflict with the existing judiciary arrangements.

Criminal Occurrences Reported and Investigated

A summary of the important Criminal Occurences reported and investigated during the year shows there were 6,159 such occurences as against 5,630 in 1946, an increase of 529.

	1947	1946
Murder	23	24
Manslaughter	41	29
Rape	31	31
Burglary	97	104
Shopbreaking	652	724
Housebreaking	1,043	1,058
Robbery with Violence	82	67
Robbery	62	75
Automobile Thefts	609	425
Other Thefts	3,519	3,095
TOTALS	6,159	5,630

Murder

Investigations were conducted into the alleged murder of twenty-six persons during the year.

Of these occurences twenty were in territory in which this Force exercises jurisdiction. In the remainder the members of this Force were assisting Municipal Police (on request).

In addition nine cases outstanding and reported in 1946 were completed.

A Summary of results of these occurences, is as follows:

Prosecuted, Convicted and Sentenced to hang	6
Prosecuted, reduced to Manslaughter	6
Prosecuted and committed to mental hospital	5
Prosecuted and committed to Training School	1
Committed Suicide	2
Acquitted	4
Awaiting Trial	3
Still under Investigation	5

Bank Robberies

During the year, the following bank robberies were reported and investigated:

March 12, 1947—Royal Bank of Canada, Smithville, Ontario.
June 2, 1947—Royal Bank of Canada, Fenwick, Ontario.
June 3, 1947—Imperial Bank, Stamford Centre, Ontario.
July 8, 1947—Bank of Nova Scotia, Campbellville, Ontario.
July 28, 1947—Bank of Nova Scotia, Carp, Ontario.
August 13, 1947—Canadian Bank of Commerce, Pickering, Ontario.
December 24, 1947—Imperial Bank, Caledon East, Ontario.

With one exception these occurrences have been satisfactorily cleared up.

Gambling and Betting Houses

The operation of "Common Betting Houses" throughout the Province was given special attention resulting in forty-one (41) prosecutions with thirty-eight convictions being registered. Four of those prosecuted, in addition to fines being imposed, served a total of seven months in gaol.

Those engaged in the business of conducting Betting Houses at their place of business, known as the "front end" where the public resort thereto for the purpose of placing their bets and which merely consists of a verbal communication and the exchange of a sum of money, invariably do not keep a record of the bets taken at such premises. Bets are not accepted from unknown persons at such premises, or in the presence of strangers. Before a bet can be placed by a person unknown to the occupant of such premises, he must first be introduced to such occupant and vouched for by a known patron. The telephone is used as a medium for transmitting these bets taken at the 'front end' to a location known as the 'back end' behind locked doors—these are usually found to be in an apartment or a private residence and located miles from the scene of operations. The Public does not have access to these premises and the means at the disposal of law enforcement officers in being able to locate such premises are very limited. Law enforcement officers are handicapped to a great extent in being unable to uncover the necessary evidence to successfully prosecute those engaged in this business, owing to the fact that there is no lawful means by which they may determine where the local telephone calls originating at the scene of operations, terminate.

The magnitude of the business of recording bets transmitted by telephone to such premises can readily be understood as the minimum for one day's operation taken from the records of cases prosecuted by officers of this Branch, average approximately $200.00, and the maximum being well over $7,000.00.

It is not uncommon to find persons in such premises with records averaging from $700.00 to $1,000.00 per day.

Prosecutions

There was a total overall of 26,432 prosecutions entered for all offences during the year, an increase of 5,736 over 1946, recorded as follows:

Under the Criminal Code and relating Statutes, 8,332, an increase of 1,279 over 1946.

Under the Highway Traffic Act, 12,457, an increase of 3,990 over 1946.

Under the Liquor Control Act, 5,630, an increase of 857 over 1946.

Under the Revised Statutes of Ontario, 323 prosecutions, an increase of 29 over 1946.

Under Other Statutes, there were 19 prosecutions.

Totals:	1947	26,432
	1946	20,696
Increase		5,736

The increase can, to a large extent, be accounted for by reason of the number of prosecutions arising in municipalities now policed by members of this Force.

Highway Traffic Act

The year 1947 saw motor vehicular traffic return to Pre-War level on all Provincial Highways, and secondary roads throughout the Province. On holidays and weekends practically every Port of entry was blocked and the highways leading to and from had continuous streams of traffic awaiting ingress and egress to this Province.

Special attention has been paid to those offences coming under the head of Drunken Drivers, Reckless and Careless Driving and drivers who failed to observe the "rules of the road" or drove their vehicles with defective lights or brakes, but in spite of all, accidents and deaths show an alarming increase.

I regret to report that both accidents and prosecutions for infractions of the traffic laws show an all time high for the year.

Accidents increased from	7,487 in 1946 to	11,448 in 1947
Number of persons killed from	409 in 1946 to	427 in 1947
Number of persons injured from	5,369 in 1946 to	6,233 in 1947

To keep pace with the increase in accidents, Prosecutions for offences under the Highway Traffic Act increased from 8,467 in 1946 to 12,457 in 1947.

Departmental Motor Transport

On December 31st, 1947, the Force was in possession of the following motor transport.

Highway Patrol Cars (white)	110
Uniform Cars (black and white)	185
General Purpose Cars	36
Trucks	1
Motor Cycle	1
TOTAL	333

This is an increase of ninety-seven motor vehicles over the number in operation on December 31st, 1946. The increase is accounted for by the discontinuance of the use of privately owned automobiles (on a mileage basis) by members of the Force in Detachment, and their replacement by radio-equipped Departmental automobiles.

DISTRIBUTION OF MOTOR VEHICULAR EQUIPMENT

	Headquarters	Districts														Totals
	H. Q.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Highway Patrol Cars (white)	1	10	13	10	14	11	6	8	12	16	2	4	1		2	110
Uniform Cars (black & white)	12	14	12	13	12	13	22	19	17	17	12	6	7	10	9	185
General Purpose Cars	2	2	1	1	2	2		2	2	6	1	1	1	1	2	36
Trucks	1															1
Motor Cycle						1										1
TOTAL MOTOR VEHICLES	16	26	26	24	28	27	28	29	31	39	15	11	9	11	13	333

DISTRIBUTION OF FORCE, DECEMBER 31st, 1947

	Headquarters	CI.. Branch	L.C.I. Branch	No. 1 District	No. 2 District	No. 3 District	No. 4 District	No. 5 District	No. 6 District	No. 7 District	No. 8 District	No. 9 District	No. 10 District	No. 11 District	No. 12 District	No. 13 District	No. 14 District	TOTAL STRENGTH
Commissioner	1																	1
Deputy Commissioner	1																	1
Staff Inspectors	3		1															4
Chief Inspector C.I.B.		1																1
Inspectors, C.I.B.		10																10
Acting Inspectors C.I.B.		1																1
Radio Communications Inspector		1																1
District Inspectors				1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
Sergeants	2		2	1	1	1	1	3	1	2	1	2	1	1	1	1	1	22
Sergeants (Patrol)					1	1				1	1	1						5
Corporals	1			2	3	4	4	3	2	4	2	3	2	2	1	1	4	38
Provincial Constables	15	1		28	35	29	33	40	33	35	31	41	20	21	18	16	19	415
Provincial Constables (Prob.)	1			9	10	11	10	11	8	13	12	10	8	8	6	10	7	134
Registrar-Weapons Permits	1																	1
Supt. Police Garage	1																	1
Asst. Supt. Police Garage	1																	1
Chauffeurs					1	1			1			1						4
Mechanics	6															1		7
Garage Attendants	6																	6
Accountants	3																	3
Secretary	1																	1
Clerks	15																	15
Stenographers	7			1	1	1	2	1	2	2	1	3	1	2	1	1	1	27
TOTALS	66	1	33	42	53	49	51	59	48	58	49	62	33	35	28	31	33	713

For purposes of administration the Province is divided into Headquarters and fourteen "Districts," each District being responsible for Law Enforcement within a certain geographical area.

Each District is divided into detachments with detachment personnel responsible for Police Activities within a designated area.

Location of Districts

No. 1 District, Headquarters CHATHAM:
comprising the Counties of Essex and Kent.

No. 2 District, Headquarters LONDON:
comprising the Counties of Lambton, Oxford, Middlesex and Elgin.

No. 3 District, Headquarters DUNDAS:
comprising the Counties of Wentworth, Brant, Halton and Norfolk.

No. 4 District, Headquarters NIAGARA FALLS:
comprising the Counties of Haldimand, Lincoln and Welland.

No. 5 District, Headquarters AURORA:
comprising the Counties of York, Peel and Ontario.

No. 6 District, Headquarters MOUNT FOREST:
comprising the Counties of Bruce, Perth, Grey, Wellington, Waterloo and Huron.

No. 7 District, Headquarters BARRIE:
comprising the Counties of Simcoe and Dufferin, and the Districts of Muskoka and Parry Sound.

No. 8 District, Headquarters BELLEVILLE:
comprising the Counties of Victoria, Haliburton, Peterborough, Northumberland and Durham, Hastings, Lennox and Addington, Prince Edward and Frontenac.

No. 9 District, Headquarters PERTH:
comprising the Counties of Renfrew, Lanark, Dundas, Carleton, Grenville, Russell, Prescott, Stormont, Glengarry and Leeds.

No. 10 District, Headquarters HAILEYBURY:
comprising the Districts of Temiskaming, Nipissing and a portion Parry Sound.

No. 11 District, Headquarters SUDBURY:
comprising the Districts of Sudbury, Manitoulin Island and a portion of Algoma.

No. 12 District, Headquarters COCHRANE:
comprising the District of Cochrane and portion of Algoma.

No. 13 District, Headquarters PORT ARTHUR:
comprising the District of Thunder Bay.

No. 14 District, Headquarters KENORA:
comprising the Districts of Kenora, Rainy River and Patricia.

LOCATION OF MEMBERS OF FORCE

Station or Detachment	Officers	Sergeants	Corporals	Prov. Consts.	Prov. Consts. H.P.	Chauff'rs, Mechanics, and Clerks
Headquarters Toronto	22	2	1	17		38
No. 1 District:						
Chatham Hqrs	1	1	1	7	1	1
Amherstburg					1	
Amherstburg (Mun.)				2		
Leamington					1	
Belle River				1		
Kingsville						
Dresden					1	
Wallaceburg				1	1	
Windsor			1	6	1	
Tilbury				1	1	
Essex				2	2	
Blenheim				1		
Mersea Township (M.) (Leamington)				1		
Colchester South Twp. (Mun.)				1		
Merlin				1		
Maidstone Twp. (Municipal)				1		
Sandwich Twp. (Municipal)				2		
Gosfield S. Twp. (Kingsville) (Mun.)				1		

LOCATION OF MEMBERS OF FORCE—Continued

Station or Detachment	Officers	Sergeants	Corporals	Prov. Consts.	Prov. Consts. H.P.	Chauff'rs, Mechanics, and Clerks
No. 2 District:						
London Hqrs	1	2		17	2	2
Strathroy				1	1	
Sarnia			1	2	1	
St. Thomas			1	2	1	
Woodstock				2	1	
Ingersoll					1	
Ingersoll (Mun.)			1	3		
Forest					1	
Lucan					1	
Tillsonburg				1	1	
Petrolia				1		
Wardsville					1	
Glencoe				1		
Bayham Twp. (Municipal) (Straffordville)				1		
Wallacetown					1	
Lambeth					1	
Sombra					1	
No. 3 District:						
Dundas Hqrs	1	2		11		2
Brantford			1	2	1	
Brantford Twp. (Municipal)				2		
Simcoe			1	4		
Paris						
Milton				1		
Waterdown				1	1	
Hamilton						
Oakville			1	7		
Burlington					1	
Stoney Creek				1	2	
Acton					1	
Rockton				1		
Mount Hope					1	
Georgetown (Mun.)			1	2		
Langton					1	
No. 4 District:						
Niagara Falls Hqrs	1	1		9	5	2
Bertie Twp. (Mun.) (Ridgeway)				2		
Wainfleet Twp. (Municipal)				1		
Welland			1	5		
Cayuga			1	2		
St. Catharines			1	4	2	
Grimsby				2	1	
Hagersville					1	
Dunnville					1	
Smithville					1	
Beamsville				1		
Port Dalhousie				1		
Fonthill				1		
Merritton			1	3		
St. Davids					1	
No. 5 District:						
Aurora Hqrs	1	2		14	4	1
Toronto		1	1	5		
Brampton				3	1	
Cooksville					1	
Oshawa				2		
Whitby			1	1	1	
Mimico					1	
Uxbridge				1		

LOCATION OF MEMBERS OF FORCE—Continued

Station or Detachment	Officers	Sergeants	Corporals	Prov. Consts.	Prov. Consts. H.P.	Chauff'rs, Mechanics, and Clerks
No. 5 District (cont'd)						
Ajax				2		
Richmond Hill					1	
Islington			1			
Port Credit					2	
Birchcliffe					2	
Willowdale					1	
Scarboro Bluffs					1	
Beaverton				2		
Malton				2		
Humber Bay					1	
Thornhill						
No. 6 District:						
Mount Forest Hqrs	1	1	1	3	1	3
Mount Forest (Mun.)				2		
Kitchener				4	1	
Walkerton				2	1	
Wiarton				1		
Blyth				1		
Goderich			1	4	1	
Stratford				1	1	
Listowel				1		
Guelph				3		
Flesherton				1		
Owen Sound			1	2		
Mitchell				1		
Seaforth				1		
Seaforth (Municipal)				2		
Galt				1		
Clinton					1	
Kincardine				1		
Elora				1		
Meaford					1	
Exeter				1		
No. 7 District:						
Barrie Headquarters	1	2	1	8		2
Alliston						
Midland				1	1	
Orillia				1	1	
Collingwood				1	1	
Bracebridge				2		
Huntsville				1	1	
Gravenhurst				1	1	
Parry Sound			1	3		
Burks Falls				2		
Bradford					1	
Bradford (Mun.)				2		
Orangeville				1	1	
Wasaga Beach (Municipal)				1		
Bala				1		
Barrie (Mun.)		1	2	8		
South River				1		
Bondhead				1		
Penetanguishene (Municipal)				4		
Tottenham				1		
Elmvale				1		
No. 8 District:						
Belleville Hqrs	1	2		9	2	1
Bancroft				2		
Havelock				1		
Madoc				1		
Picton					1	

LOCATION OF MEMBERS OF FORCE—Continued

Station or Detachment	Officers	Sergeants	Corporals	Prov. Consts.	Prov. Consts. H.P.	Chauff'rs, Mechanics, and Clerks
No. 8 District (cont'd.						
Bowmanville					1	
Cobourg				1	1	
Brighton				1		
Colborne					1	
Newcastle				1		
Hastings				1		
Kingston			1	2	2	
Sharbot Lake				1		
Haliburton				1		
Napanee				1	1	
Northbrook				1		
Minden				1		
Peterborough			1	2	1	
Marmora					1	
Apsley				1		
Lindsay				1	1	
Fenelon Falls				1		
Bobcaygeon				1		
No. 9 District:						
Perth Headquarters	1	2	1	6		3
Carleton Place					1	
Ottawa		1		3		1
Rockcliffe Park (Municipal)				2		
Brittania Heights					1	
Cornwall			1	6	1	
Morrisburg						
Kemptville					1	
Alexandria (Municipal)				2		
Prescott				1	1	
Alexandria				1		
Lancaster				1		
Hawkesbury				1		
Vankleek Hill				1	1	
Pembroke				2		
Killaloe Station				1		
Eganville (Mun.)				1		
Renfrew				1	1	
Barry's Bay				1		
Arnprior (Mun.)			1	3	1	
Chalk River					1	
Stonecliffe					1	
Rolphton				1		
Rockland				1		
Casselman				1		
Brockville				1	1	
Gananoque					1	
Toledo					1	
Elgin					1	
No. 10 District:						
Haileybury Hqrs	1	1		7		1
Elk Lake				1		
Matachewan				1		
Englehart				2		
Kirkland Lake			1	3		
Cobalt				2		
(Virginiatown) McGarry Twp.				2		
North Bay			1	4		
Mattawa				1		
Sturgeon Falls				2		
Temagami				2		
Powassan				1		

LOCATION OF MEMBERS OF FORCE—Continued

Station or Detachment	Officers	Sergeants	Corporals	Prov. Consts.	Prov. Consts. H.P.	Chauff'rs, Mechanics, and Clerks
No. 11 District:						
Sudbury Hqrs	1	1		6	1	2
(Espanola)						
Espanola Townsite (Municipal)				1		
Espanola				1		
White River				1		
Chapleau				1		
Cartier				1		
Gogama				1		
(Garson)						
Neelon & Garson Twps. (Mun.)				1	1	
Capreol				1		
Foleyet				1		
(Sudbury)						
McKim Township (Municipal)			1	3		
Warren				1		
Blind River				1	1	
Thessalon				1		
Hornepayne				1		
Wa Wa				1		
Sault Ste. Marie			1	1		
Gore Bay				1		
Little Current				1		
No. 12 District:						
Cochrane Hqrs	1	1		5		1
Cochrane (Mun.)				2		
Hearst			1	3		
Hearst (Mun.)				3		
Kapuskasing				3		
Iroquois Falls				1		
Timmins			1	3	1	
Matheson				1		
Smooth Rock Falls				1		
No. 13 District:						
Port Arthur Hqrs	1	1		11		2
(Schreiber)				1		
Schreiber Twp. (Municipal)				2		
Beardmore				1		
Beardmore (Mun).				1		
Armstrong				1		
Nipigon (Nipigon)						
Nipigon Twp.				1		
(Municipality)				2		
Terrace Bay Townsite (Mun.)			1	2		
Aquasabon River				2		
Heron Bay				1		
Geraldton				1		
No. 14 District:						
Kenora Hqrs	1	1		5		1
Sioux Lookout (Municipality)			1	4		
Dryden (Mun.)			1	4		
Atikokan (Mun.)				1		
Hudson				1		
McKenzie Island				1		
Central Patricia				1		
Favourable Lake				1		
Red Lake			1	3		
Fort Frances			1	2		
Rainy River			1			
Ignace					1	
Emo				1		

Personnel Strength

At midnight, December 31st, 1947, the total strength of all ranks of the Force, including temporary and civilian personnel, was seven hundred and thirteen (713), an increase of one hundred and eighteen (118) over 1946.

Personnel Increase

To provide the extra men necessary to police several municipalities, and to cope with the increase in traffic accidents and crime, additional Constables have been appointed to the Force.

In selecting these recruits, only returned servicemen with a record of service in an actual theatre of war, are given consideration.

Change in Personnel

During the period January 1st, 1947 to December 31st, 1947, the following appointments to and retirements from the Force became effective:

APPOINTMENTS

Provincial Constables	152

PROMOTIONS

January 15th, 1947—Provincial Constable F. C. Thurston, Leamington Detachment, promoted to Corporal.

March 1st, 1947—Corporal G. B. Carmichael, No. 7 District Headquarters, Barrie, promoted to Sergeant.

March 1st, 1947—Provincial Constable R. J. Clark, Chatham Detachment, promoted to Corporal.

March 1st, 1947—Provincial Constable E. L. Harris, Barrie Municipality, promoted to Corporal.

March 27th, 1947—Provincial Constable T. H. Trimble, Cobourg Detachment, promoted to Inspector, Radio Communications Branch, G.H.Q. Toronto.

April 1st, 1947—Sergeant A. MacDougall, No. 4 District Headquarters, Niagara Falls, promoted to District Inspector, No. 12 District Headquarters, Cochrane.

April 1st, 1947—Provincial Constable R. Reynolds, Georgetown Municipality, promoted to Corporal.

May 1st, 1947—Provincial Constable J. W. Callander, Ingersoll Detachment, promoted to Corporal.

May 1st, 1947—Provincial Constable A. Jackson, Oakville Detachment, promoted to Corporal.

May 1st, 1947—Provincial Constable W. A. Bayes, Merritton Detachment, promoted to Corporal.

June 15th, 1947—Provincial Constable E. A. Hoath, Welland Detachment, promoted to Corporal.

July 1st,1947—Corporal I. R. Robbie, No. 12 District Headquarters, Cochrane, promoted to Sergeant.

July 1st, 1947—Provincial Constable T. S. Crawford, McKim Twp. Detachment, promoted to Corporal.

July 1st, 1947—Provincial Constable E. C. Mitchener, No. 6 District Headquarters, Mount Forest, promoted to Corporal.

July 1st, 1947—Provincial Constable L. G. A. Walker, Timmins Detachment, promoted to Corporal.

August 1st, 1947—Provincial Constable J. L. Whitty, Brantford Detachment, promoted to Corporal.

August 1st, 1947—Provincial Constable S. Whitehouse, Kirkland Lake Detachment, promoted to Corporal.

August 1st, 1947—Provincial Constable A. Eady, Sioux Lookout Detachment, promoted to Corporal.

August 1st, 1947—Provincial Constable L. Neil, No. 1 District Headquarters, Chatham, promoted to Acting Inspector, C.I.B. Toronto.

August 1st, 1947—Provincial Constable H. S. Gall, No. 7 District Headquarters, Barrie, promoted to Corporal.

September 1st, 1947—Provincial Constable J. Clark, Simcoe Detachment, promoted to Corporal.

September 1st, 1947—Provincial Constable D. G. Campbell, Whitby Detachment, promoted to Corporal.

September 1st, 1947—Provincial Constable S. A. Hilliard, Toronto Detachment, promoted to Corporal.

September 1st, 1947—Provincial Constable J. J. Palmer, No. 5 District Headquarters, Aurora, promoted to Corporal.
September 1st, 1947—Provincial Constable J. K. Smith, Cayuga Detachment, promoted to Corporal.
October 1st, 1947—Provincial Constable G. J. Maguire, Goderich Detachment, promoted to Corporal.
October 1st, 1947—Provincial Constable A. L. Bonnycastle, No. 13 District Headquarters, Port Arthur, promoted to Corporal.
October 1st, 1947—Provincial Constable R. J. Whiting, Sarnia Detachment, promoted to Corporal.
November 1st, 1947—Provincial Constable C. Von Zuben, Anti-Gambling Branch, promoted to Corporal.

RESIGNATIONS

January 2nd, 1947—Provincial Constable C. E. Broughton, Bowmanville.
January 15th, 1947—Provincial Constable R. C. Deegan (Probationary) Arnprior.
January 18th, 1947—Provincial Constable G. Cowles (Probationary) G.H.Q., Toronto.
January 31st, 1947—Provincial Constable F. Fox, Barrie.
March 2nd, 1947—Provincial Constable R. S. Parkes, Hornepayne.
March 24th, 1947—Provincial Constable H. E. Jones, Cayuga.
March 31st, 1947—Provincial Constable M. L. Berger, G.H.Q., Toronto
March 31st, 1947—Provincial Constable F. L. Barker, St. George.
April 6th, 1947—Provincial Constable F. G. Thompson, Niagara Falls.
April 10th, 1947—Provincial Constable K. Storey, Nipigon Twp.
April 15th, 1947—Provincial Constable L. R. Taylor, Hamilton.
April 24th, 1947—Provincial Constable L. E. Nix, Marathon.
April 30th, 1947—Provincial Constable R. E. Penner, Temagami.
May 10th, 1947—Provincial Constable E. E. Bowen, Northbrook.
May 10th, 1947—Provincial Constable W. H. Armstrong, Chatham.
May 15th, 1947—Provincial Constable R. J. Taggart, Simcoe.
May 15th, 1947—Provincial Constable N. P. Budd, St. Catharines
May 15th, 1947—Provincial Constable H. H. Wheeler, Port Arthur.
May 31st, 1947—Provincial Constable K. J. Ford, Tottenham.
May 31st, 1947—Provincial Constable L. S. Wrightman, Kapuskasing.
June 15th, 1947—Provincial Constable J. W. Brydges, Kenora.
June 30th, 1947—Provincial Constable A. R. MacLeod, Belleville.
July 16th, 1947—Corporal F. C. Thurston, Brantford.
July 25th, 1947—Provincial Constable R. S. Edge, Alexandria.
July 26th, 1947—Provincial Constable J. A. C. Rogers, Frankford.
July 31st, 1947—Provincial Constable F. R. Dobson, Orangeville.
July 31st, 1947—Provincial Constable J. Gerec, Red Lake.
August 5th, 1947—Provincial Constable J. H. Sloan (Probationary) Barrie.
August 5th, 1947—Provincial Constable J. C. Powell (Probationary) Perth.
August 15th, 1947—Provincial Constable A. Peranoski, Port Arthur.
September 2nd, 1947—Provincial Constable K. W. McLay, Stoney Creek.
September 30th, 1947—Corporal E. C. Mitchener, Mount Forest.
October 18th, 1947—Provincial Constable C. B. Massel, Hornepayne.
October 27th, 1947—Provincial Constable W. H. Hillis, Fort Francis.
October 31st, 1947—Provincial Constable B. H. Moroney, Sault Ste. Marie.

DISMISSALS

January 6th, 1947—Provincial Constable S. J. Bowman, Cochrane.
April 12th, 1947—Corporal H. O. Finger, Kirkland Lake.
April 12th, 1947—Provincial Constable J. J. Ansley, Kirkland Lake.
May 20th, 1947—Sergeant H. Braney, Timmins.
October 31st, 1947—Provincial Constable G. Boucher, Twp. of Neelon and Garson.
October 24th, 1947—Provincial Constable J. S. Bennett, Kingsville.

DEMOTIONS

May 1st, 1947—Sergeant A. R. MacLeod, No. 12 District Headquarters, Cochrane, demoted to Provincial Constable (group 2).

Commendations

The following members of the Force were commended in Police Orders for outstanding service:

Provincial Constable J. G. Fulton, Timmins Detachment.
Provincial Constable J. P. LaPerriere, Timmins Detachment.
Corporal G. V. Clubbe, Brantford Detachment

Provincial Constable G. E. Giles, Brantford Detachment.
Corporal H. O. Finger, Kirkland Lake Detachment.
Provincial Constable J. J. Ansley, Kirkland Lake Detachment.
Provincial Constable L. LeBar, Kirkland Lake Detachment.
Provincial Constable J. E. Keays, No. 8 D.H.Q., Belleville.
Provincial Constable S. W. Palmateer, Bancroft Detachment.
Inspector G. MacKay, C.I.B., Toronto.
Provincial Constable L. Neil, Windsor Detachment.
Provincial Constable H. Partington, Windsor Detachment.
Inspector F. C. Kelly, C.I.B., Toronto.
Provincial Constable R. J. Whiting, Sarnia Detachment.
Provincial Constable H. H. Graham, Sarnia Detachment.
Provincial Constable J. Rowcliffe, Sarnia Detachment.
Provincial Constable R. H. Devereux, Welland Detachment.
Provincial Constable L. E. Throop, Vankleek Hill Detachment.
Provincial Constable A. H. Barker, Vankleek Hill Detachment.
Provincial Constable G. Coling, Brighton Detachment.
Provincial Constable D. Wilson, Colborne Detachment.
Provincial Constable H. G. Wilkins, No. 4 D.H.Q., Niagara Falls.
Provincial Constable L. C. Millaire, Smooth Rock Falls Detachment.
Provincial Constable E. Brownbridge, Cochrane Detachment.
Provincial Constable W. J. C. Bolton, Cochrane Detachment.
Corporal T. W. Griffin, Hearst Detachment.
Sergeant W. G. Tomlinson, Anti-Gambling Branch, G.H.Q., Toronto (Now Inspector).
Provincial Constable J. E. Downs, Anti-Gambling Branch, G.H.Q., Toronto.
Provincial Constable J. F. Cronin, Anti-Gambling Branch, G.H.Q., Toronto.
Provincial Constable J. E. Legate, Anti-Gambling Branch, G.H.Q., Toronto.
Provincial Constable J. M. Anderson, Anti-Gambling Branch, G.H.Q., Toronto.
Provincial Constable C. Von Zuben, Anti-Gambling Branch, G.H.Q., Toronto.
Provincial Constable K. F. Rayner, Central Patricia Detachment.
Provincial Constable V. Proctor, Willowdale Detachment.
Corporal W. A. Bayes, Merritton Municipality.
Provincial Constable D. W. Wellesley, Morrisburg Detachment.
Inspector C. W. Wood, C.I.B., Toronto.
Provincial Consstable H. Drackley, Schreiber Detachment.
Inspector W. H. Kennedy, C.I.B., Toronto.
Corporal R. G. Beatty, Sault Ste. Marie Detachment.
Provincial Constable F. M. Rawlings, Sault Ste. Marie Detachment.
Inspector W. H. Clark, C.I.B., Toronto.
Provincial Constable B. J. Lynch, Matheson Detachment.
Provincial Constable H. M. Purdy, Cochrane Detachment.

SERVICE REVOLVER COMPETITION

SERVICE MARKSMANSHIP COMPETITION

On June 25th, 1947, Revolver Competitions sponsored by the Guelph Police Association were held at their outdoor ranges at Guelph. The competitions were open to all police officers in Ontario; about fifty competitors were in attendance and represented Police Departments from all over Ontario.

Aggregate Scores:

D. H. Darby, O.P.P.	236 points, possible score 240
W. H. Boyd, O.P.P.	209 points, possible score 240
J. Fulton, O.P.P.	171 points, possible score 240

In the individual standings Sergeant Darby made a record for the highest score ever attained at this meet, shooting 236 points out of a possible 240. In this match he also made another record in shooting two possible scores consecutively.

On June 26th, 1947, another match sponsored by the Police Association of Ontario was also held at the aforementioned range.

Aggregate Scores:

D. H. Darby, O.P.P.	224 points, possible score 240
W. H. Boyd, O.P.P.	207 points, possible score 240
J. Fulton, O.P.P.	196 points, possible score 240

At another revolver competition sponsored by the Hespeler Old Boys Centennial held at Hespeler on July 5th, 1947, individual competitions were held, no team matches being held.

1st—D. H. Darby, O.P.P.	336 points, possible score 360
2nd—W. A. Leslie, Fort Erie Police	331 points, possible score 360
3rd—W. Watson, St. Catharines Police	324 points, possible score 360

At another revolver match held at St. Catharines on August 20th, 1947, also open to all police officers in Ontario and with a large attendance of competitors, the results are as follows:

D. H. Darby, O.P.P.	272 points, possible score 300
W. H. Boyd, O.P.P.	267 points, possible score 300
J. Fulton, O.P.P.	241 points, possible score 300

At another revolver match held at Toronto on November 5th, 1947, the Ontario Provincial Police team won second place, Sergeant D. H. Darby won first place in the slow fire match.

From the above, it will be noted the consistently good shooting by Patrol Sergeant D. H. Darby of No. 3 District Headquarters, Dundas.

Training School

During the year five sessions of the Training School were held at our Headquarters, 13 Queen's Park Crescent, Toronto, the length of the sessions varying from six to eight weeks.

One of the sessions, due to special circumstances, only lasted three weeks but the schooling of the members of this class was continued at the various District Headquarters to which they were posted.

The attendance at the various classes was 27, 35, 36, 32 and 36 respectively, the total passing through the school during the year being 166, all of them recruits.

The curriculum of the school covers a very wide field of law enforcement matters and interior economy of the Force.

In addition to members of the school staff, many experts in their chosen field were brought in to lecture to the students at the school.

All sessions of the school were very successful and the men attending started out on their new careers with at least an elementary knowledge of the requirements of their profession and what is expected of public servants.

The Staff Inspector in charge of the Training School and our fingerprint expert have also, during the year, given several lectures at the Staff Training School of the Department of Reform Institutions held at the Guelph Reformatory.

School of Legal Medicine—Harvard University

In 1947, an invitation was received from the School of Legal Medicine, Harvard University, to send a representative from this force to attend a series of lectures which had been arranged in the City of Boston, Massachusetts. Inspector W. H. Clark was assigned to attend this course of lectures and, judging from the favourable comments contained in communications received from the Secretary of the School, our officer made a very good impression.

In addition to Inspector Clark's attendance at the School of Legal Medicine, he was also invited by the officer in command of the Connecticut State

Police to spend a few days at the Headquarters of that Force. This proved to be a good opportunity for Inspector Clark to view the operations of this particular State Police Force and he was able to gather considerable material which cannot help but be beneficial as the occasion might arise.

Industrial Unrest

On only one occasion during 1947 was application made by a Municipality for the assistance of members of this Force in connection with disorder caused by industrial strikes.

On October 23rd, 1947, the Council of the Municipality of Port Credit applied (under the provisions of The Police Act) for assistance from this Force as the Police Force of their Municipality was unable to maintain Law and Order in the vicinity of the St. Lawrence Starch Company's plant where a strike had been called by the local Branch of the International Chemical Workers' Union.

One Sergeant and eighteen Provincial Constables were detailed for this duty on which they were engaged from October 24th to Novmber 6th, 1947. Some disorder took place when strikers endeavoured to prevent workers from entering the plant, also when loaded railway cars were being taken in and out of the Company's property. In one of the disturbances a Constable of the Port Credit Police Department suffered a severe injury to his right eye when he was struck by his baton which had been torn from his hand by one of the strikers. The wound required several stiches to close. The striker causing the injury was arrested on a charge of "Assaulting a Police Officer in the execution of his duties."

The same policy that has been prevalent in many recent strikes was followed here—the strikers attempting a complete blockade of all entrances to the plant. However, after the arrival of members of this Force to assist the local Authorities, all entrances were kept clear.

There were a number of arrests, prosecutions and convictions for—Obstruction, Assault and Intimidation, arising out of this strike, most of which were of a minor character.

Disturbance—Burwash Industrial Farm

On October 4th, 1947, at the request of the Deputy Minister of Reform Institutions, forty officers and other ranks, under the command of a Staff Inspector, were dispatched to the Burwash Industrial Farm to assist the officers of that institution in quelling a disturbance which had broken out among the inmates.

Upon the arrival of the members of the Force it was found that tension was running very high, and there was the possibility of a dangerous outbreak. After a few days, however, the bitterness apparently dissipated, and the personnel of this Force were gradually reduced, the men being returned to their posts.

On October 15th, word was received from the Deputy Minister that the danger was over and the final detail of our men was withdrawn.

Registration of Firearms

In the enforcement of those sections of the Criminal Code dealing with the issuance of Permits for Firearms, care has been taken to ensure that the individual rights of citizens are not interfered with. In the interest of public safety, each applicant is investigated to make sure that firearms do not fall into the hands of undesirables.

The following permits were issued through the Firearms Registration Branch during the year:

Vendors Permits	22
Permits to Purchase	2,097
Permits to Carry	937
Alien's Permits	5,437
Permits to Minors	Nil

There is an increasing number of applications from United States Sportsmen for Alien Firearms Permits. A large percentage of the 17,000 permits issued to such sportsmen during the previous years were renewed, as well as the above number of new permits issued.

There is still a hesitancy on the part of Returned Service Personnel to submit for registration, Revolvers and Pistols brought from Overseas as Souvenirs. An attempt was made during the year to have these weapons registered. All such personnel who were interviewed were advised that such weapons could be registered as souvenirs and would not be seized unless found to be Canadian or United States Government property.

While this branch seldom registers firearms, it is responsible for the distribution of Registration Certificates to all Police Forces within the Province. A record is kept at this office of all registration certificates issued.

The following is a summary of permits issued by the Firearms Registration Branch during the year:

Vendors Permits

Twenty-two vendors permits to buy and sell revolvers and pistols were granted to well established sporting goods dealers. Each applicant for a dealers permit was thoroughly investigated by our District Inspector concerned. Permits were issued only to firms bearing a high reputation. Applications from persons wishing to deal in revolvers and pistols from their private residences were refused.

All Permits issued to dealers during 1945 and 1946 were renewed; there being no complaint during the year of any dealer making an illegal transaction. All dealers appeared very co-operative and assisted in keeping concealable firearms from undesirables.

Purchase Permits

The sale, gift or loan of a Revolver or Pistol requires a Permit from this office and the great volume of work entailed in this branch is in the issuing of these permits. Before a permit is issued each applicant must be recommended by his nearest ranking police officer. The weapon must be properly registered by the vendor and a check made to see that it is not a stolen weapon or otherwise illegally possessed. All applications to purchase by persons under 21 years of age are refused. When a permit has been issued, the vendor must sign a Record of Sale Card and mail same to this office to show that the transaction has been completed and the weapon registered.

Carrying Permits

The issuing of Permits to Carry revolvers or pistols requires care and consideration. Each applicant is thoroughly investigated and a permit is not issued until the applicant has been found not only to be a fit and proper person to carry a concealed firearm, but that it is necessary for the protection of life or property, or for practice in an authorized Revolver Club. Permits of this type are not issued under any circumstances to persons under the age of 21 years. A large number of applications were received from both Canadian and United States Sportsmen to carry revolvers or pistols into the bush for hunting; these were refused. Permits are, however, issued to a few Mining Engineers and Prospectors who are highly recommended and who carry money into the bush for paying mining crews.

Alien Permits

Visiting United States sportsmen and U.S. Citizens residing in Canada require a permit to possess firearms in Canada. All such permits for Ontario are issued from this office, with the exception of our Fort Frances detachment, which issued permits to those sportsmen entering at that point and requiring such permit. There has always been a heavy rush of applications just prior to the Fall hunting season and, being too great for the regular staff to handle, necessitated extra help. This rush was avoided in 1947 by our requesting U.S. sportsmen to return their permits as soon after the New Year as possible for renewal.

Canadian and United States Government Property

A check was made on every weapon that might be either a Canadian or U.S. Government weapon. A number of these were seized, Waiver of Claim signed by persons possessing same and the weapons turned over, as indicated, to either the Royal Canadian Ordnance Corps or the Military Attache, U.S. Embassy, Ottawa.

Revolver Clubs

Five new Revolver Clubs were organized during the year and received authorization by The Honourable The Attorney-General. In each case, the Executives of the Club were investigated and found to be composed of reliable citizens. Ranges were inspected and found to be safe. There are now sixty-four authorized Civilian Revolver Clubs in the Province of Ontario; a few of which are at present inactive.

MISSING PERSONS

Myers, Frederick C.—District of Kenora

As a result of information received from our Fort Frances Detachment, a patrol was made by plane on March 10th, 1947, to the camp of Frederick C. Myers, age 55 years, situated on the Lower Manitou Lake about forty miles north of Fort Frances. Myers, a trapper and a resident of the District for the past 20 years, was found missing from his cabin on March 9th, by a commercial bush pilot.

The consequent investigation revealed that Myers had not been seen since January 5th and that he was believed to have wandered off into the bush improperly clad for the severe weather.

Periodical searches made for the missing man proved fruitless until his remains were discovered on July 13th, 1947, on the shores of a lake in the locality of his cabin. As there was no evidence of foul play, the Coroner and the Crown Attorney decided no inquest would be necessary.

Kirk, John, Fort Frances—District of Rainy River

On the morning of October 10th, 1947, a Mrs. D. Rousseau of East McIrvine Township, Fort Frances, Ontario, found the badly decomposed body of a man in a swamp two miles north of Fort Frances. A consequent investigation revealed that the remains were those of John Kirk, age 76 years, who had been missing from the Town of Fort Frances since June 24th, 1947. It would appear that Kirk simply walked out of the Fort Frances Hotel on the morning of June 24th and had never been heard of or seen since that date. All his luggage had been left in his room at the time. In the left hip pocket of the trousers of the remains was found 5 - $10.00 bills; 1 - $5.00 bill and 2 - 25c pieces. It was also apparent that before the body was found it had been badly mutilated by dogs.

Wilson, John—Port Arthur, District of Thunder Bay

On November 19th, 1947, the above named person, a foreman for Phillips and Benner Land Surveyors of Port Arthur, was taken by boat from McKenzie Island to a point on the south shore at the mouth of the Chukini River in the Red Lake vicinity, the purpose being to pick up some men who were working in that vicinity. Due to the fact that the ice was forming along the river, the boat driver, one Harold Clark of McKenzie Island, told Wilson that he could not proceed any further due to the ice conditions. It would appear that Wilson became a bit annoyed at the boat driver's failure to proceed with him and got out of the boat at about 3.45 in the afternoon. Wilson was advised to be cautious because of the ice conditions, but apparently told the boat driver that as he was a native of this country, he had no worries regarding same. Wilson failed to turn up at the camp where he was proceeding to contact the men and to this date has not been seen since, although patrols have been carried out from time to time by the Red Lake Detachment in the vicinity where this man was last seen.

DEATHS FROM ACCIDENT AND MISADVENTURE

Steamboat Collision—St. Lawrence River

On September 24th, 1947, a collision occurred between S.S. Milverton and S.S. Translake going in the opposite direction at a point approximately three miles east of Iroquois, Ontario, on the St. Lawrence River, known as the Narrows. The S.S. Milverton was at the time loaded with coal and the S.S. Translake was loaded with oil. They apparently met port to port when the S.S. Translake swung to the south directly in front of the S.S. Milverton, the S.S. Milverton ramming the oil tanker S.S. Translake amidship on the starboard. From the force of the collision, oil shot out from the punctured tank on the S.S. Translake covering the S.S. Milverton and the surrounding waters with crude oil which exploded almost immediately, covering the water around the boats with flames. The men employed on the S.S. Milverton, who were able, jumped into the flaming oil on the water. Deaths were caused by the explosion, also from drowning and from the fire which followed. All employees on the S.S. Translake were reported safe and no person was injured. There were twelve deaths reported from among the crew of the S.S. Milverton. This investigation was carried out by our officers from Cornwall and Morrisburg Detachments, while the New York Police handled the investigation on the American side.

With reference to the above, the following Extract from the "Bulletin" Bureau of Criminal Investigation, New York State Police, Albany, N.Y. is of interest:—

"GOOD POLICE CO-OPERATION"

"Good police work calls for high initiative on the part of an officer. Police departments have basic rules for conducting investigations, but the details must be left to the men in the field. The strategy, in other words, can be laid down in advance; the police can be instructed in the admissable and inadmissable ways of seeking out information, and can be given a broad plan for attacking a problem. But the tactics are bound to vary in every circumstance, and it is here that the policeman's own initiative counts.

"A fine example of this is provided by the tragic explosion aboard the collier Milverton. This posed a whole set of unusual problems for the police, and the way in which it was handled reflects a good deal of credit on all the men involved.

"There was, first of all, a rather tricky problem of jurisdiction. It was established fairly quickly that the explosion took place right on the international boundary between the United States and Canada. Both sides could have claimed, with a fair amount of justice, that responsibility for the investigation rested with the other. But to their credit, neither the New York State Troopers nor the Ontario Provincial Police wasted time in arguing the point. They got together, and worked on the investigation in complete harmony. No time was wasted in arguing over jurisdiction. It was finally decided that the actual investigation was the responsibility of the New York Police, but they were given every assistance by the men from the Ontario force. The difficult problem of identifying the bodies found aboard the Milverton was placed with the Ontario Provincial Police, since all the men were Canadians.

"The two forces together worked on the knotty problem of getting aboard the Milverton, and were able to carry out an investigation almost before the salvage tug had succeeded in putting out the fire aboard her. As it turned out it was none too soon; for a little more than 36 hours after the first search party went aboard the Milverton, she began to break up.

"An official inquiry into the disaster is scheduled for here about October 14th, and no doubt at that time good use will be made of the intensive police investigation. In the meantime, all forces concerned deserve commendation, for the manner in which they co-operated, and for the efficiency with which they handled a difficult assignment."

UNITED STATES ARMY AIRPLANE CRASH

SANDWICH WEST TOWNSHIP—ESSEX COUNTY

On May 19th, 1947, a United States Airplane carrying five Army Officers crashed in a field in Sandwich West Township, about two miles outside the City of Windsor.

The crash was investigated by the personnel of our Windsor District Headquarters assisted by officers of the Windsor Police Department, who set up a Delco Light system, whereby the search could be carried on during darkness.

The motors of the airplane were buried at least ten feet in the ground and the wreckage scattered over a wide area.

The five occupants of the plane were all killed, their bodies being so badly mutilated that identification was impossible.

Members of this force guarded the wreckage until United States Army officials from Detroit and officials from the Civil Aviation Division, Department of Transport, Ottawa, arrived and took over the investigation.

After consultation with the Crown Attorney and Coroner, permission was granted the United States Army Officials to convey the bodies to the United States, where the enquiry into the cause of the crash was continued.

Tornado, Coe Hill, Hastings County

On the evening of August 30th, 1947, a severe wind storm having the force of a tornado, struck the Coe Hill District, in the northern section of Hastings County.

The storm which was of short duration cut a swath about five hundred feet wide for a distance of approximately seventy miles, through the Townships of Cashe, Effington and Abinger, inflicting injuries to a number of persons, and causing immense property damage.

One person, Myra Ferguson, a girl twelve years of age, was picked up by the wind, carried a distance and then hurled to the ground. She suffered a fractured skull and broken neck, and died as a result of her injuries.

Property damage was estimated at a million dollars and many families rendered homeless, with their life's work in stock and buildings destroyed in a matter of minutes.

Death from Exposure

Norton, Howard A. and Norton, Mrs. Ivy E.

On Thursday, November 6th, 1947, Howard A. Norton left Aments' tourist camp of which he was part owner, on Little Vermilion Lake in the vicinity of Sioux Lookout. He proceeded by boat to an outpost camp where his wife was, for the purpose of closing up the camp for the season, stating that he would return on the Sunday or Monday with his wife, dog and camp equipment.

On the following Sunday the lake was extremely rough and the weather cold; too rough for small boat travel, but this young man, age 29 and his wife age 24 (an English war bride) who were not accustomed to living in this section of the Province, must have started out for Aments' camps, believing that they would be frozen in at the other camp.

It would appear that they had proceeded two miles in their skiff, keeping to the sheltered side of a point on the opposite shore, but capsized when they rounded a point into the face of the strong west wind. They managed to make shore as their tracks could be seen for a short distance, but it was also apparent that they were confused in respect of direction and were no doubt soon overcome by the cold.

The bodies were located by a search party on November 8th, 1947, who were attracted to the scene by the whining and barking of the dog. No inquest was considered necessary according to the Coroner Dr. W. H. Allin.

Auto Fatalities

On April 10th, 1947, on King's Highway No. 2, one mile east of Lancaster, Glengarry County, a G.M.C. tractor, No. 12199C and Semi-Trailer No. 38140T, driven by G. H. C. Leslie, Oshawa, Ontario, accompanied by a passenger, Raymond Preston, Port Arthur, Ontario, a hitchhiker, both were burned to death when the truck crashed into a tree on side of highway.

On May 5th, 1947, on King's Highway No. 2, 4½ miles west of Prescott, Township of Augusta, County of Grenville, vehicle No. 1 Tractor and Semi-Trailer, Tractor 1946 White, Ontario License No. 12987C and Semi-Trailer 1946 King, Ontario License No. 4843 T. Vehicle No. 2—1937 Pontiac Coach, Ontario License No. 409-T-1. The tractor and semi-trailer was driven by H. R. Marshall, 110 Havelock Street, Brockville, Ontario. Both vehicles met head on on the brow of a hill. H. R. Marshall, driver, age 19, killed. M. T. Brady, age 63, passenger, killed. Miss Teresa Brady, age 16, passenger, killed.

On September 6th, 1947, Albert Kelly, age 30, his daughter, Frances Kelly, age 14 months and his son Glen Kelly, age 6, of Renfrew, Ontario, were all killed when the car driven by Albert Kelly, bearing Ontario License number 3-V-625, crashed into a C.N.R. locomotive at C.N.R. Crossing and King's Highway No. 41, two miles south of Eganville, Ontario.

One of the worst tragedies ever to strike a single family in this province, occurred on December 11th, 1947, at the C.P.R. level crossing on the 8th concession, Lot No. 20, Bayham Township, County of Elgin. Elmo Howey, 43, and his three sons, James, 14, William, 13, and George 8 years of age, were killed when a Canadian Pacific Railway Extra train crashed into the truck in which Howey was taking his children to school. A fourth child, May Lou, 7, received serious injuries. Mrs. Elmo Howey, passed the wreck scene shortly after the collision, but was unaware of her family's fate. When the news was conveyed to her, she collapsed and died the following morning. An inquest was held and the Jury made the usual recommendation that all level crossings be equipped with safety devices.

On November 20th, 1947, at about 8.30 a.m. an auto driven by Harold Cuse, left from behind the C.P.R. station at Loon Lake some 20 miles east of Port Arthur, with three adults and one infant as passengers, with the intention of proceeding to Port Arthur. In order to reach the main highway it was necessary in the course of travelling about 125 yards to make two left-hand turns to the C.P.R. tracks, and it is assumed that the windows of the car were both shut and also steamed up due to the prevailing cool weather, and the driver did not hear the approaching east bound C.P.R. passenger train No. 4, which was travelling at a speed of approximately 40 m.p.h. and was struck when crossing the railway tracks, resulting in the death of the three adults and infant.

Auto and Train Collision—New York Central Level Crossing, County of Essex

On December 27th, 1947, an automobile driven by Alexis L. Thibert, age 33, of Tilbury, Ontario, carrying four other persons on a hunting trip was struck by a New York Central train whilst crossing the railroad tracks at the Richardson sideroad crossing.

Three of the passengers and the driver were killed instantly. Their bodies were found along the right of way and in the wreckage of the automobile which was carried more than four hundred feet from where it was struck by the train.

From enquiries made it would appear the driver did not see the train until practically on the tracks. He then attempted to stop but immediately started up again. The wheels refused to grip on the icy surface and before anything further could be done the train struck the automobile broadside.

Drownings

On May 1st, 1947, H. Litraille, age 27, 70 Witham Street, Cornwall, A. Payette, age 54, 34 Arthur Street, Cornwall and O. Loussier, age 26, Cornwall, were drowned in the St. Lawrence River near Barnhardt Island.

On July 20th, 1947, Thomas Kieley, age 37, 1014 Gladstone Ave., Ottawa, Albert Voisine, age 35, his wife Marie Voisine, age 32, and his son, Gerald A. Voisine, age 5, of Winchester, Ontario, were all drowned when the small boat in which they were returning from a picnic capsized in the Rideau River near the lighthouse at Osgoode, Ontario.

On November 22nd, 1947, John Gornick, Emile Meinenen, Ivan Alenain, and Emile Nurmi, employed by the Hydro Electric Power Commission at Moore Lake, were drowned in the Ottawa River while working on a cableway bridge spanning the Ottawa River, the bridge capsizing. Bodies have not yet been recovered.

Death from Fires

On February 1st, 1947, James Casselman, age 4, Dawn Casselman, age 3, and Ronald Casselman, age five months, children of Myles Casselman, were burned to death in a fire which destroyed their farm residence, 9th Concession, Township of Winchester, County of Dundas.

On December 17th, 1947 a fire was reported to and investigated by our Kingston Detachment, in which the lives of four persons were lost.

Investigation showed that a dwelling house occupied by a family employed on the Babcock farm in Portland Township, had been destroyed by a fire of unknown origin, and that the following persons had lost their lives as a result: Mrs. Steven Card, age 69; Henry Card, age 35; Lillian Boomhour (daughter), age 30; Harry Boomhour (grandson), age six months.

CRIMINAL INVESTIGATION BRANCH

The Criminal Investigation Branch has been actively and continuously engaged in many avenues of investigation including all major crimes, interdepartmental investigations, enquiries under the Uwrought Metals Act, the Private Detectives Act, Unsatisfied Judgment Fund under the Highway Traffic Act, also enquiries re Administration of Municipal Police Departments.

Many enquiries were also made for Police Departments in Canada, United States and the British Commonwealth, in connection with absconding and missing persons.

Murders

In addition to new occurrences reported and investigated in 1947, a number of cases reported in 1946, were continued and disposed of:—

Sergeant Hugh Price, Windsor, Essex County (reported 1946)

In this matter, one Ronald Sears, a youth of 18 years, who had been arrested in connection with a series of murders in the Windsor area, was convicted and sentenced to be hanged. The conviction and sentence was appealed and quashed by the Ontario Court of Appeal. He was, however, indicted on one other charge of murder and three of attempted murder and was arraigned before Mr. Justice D. P. Kelly and Jury, February 5th, 1947, on charge of attempted murder.

The question of Sears' sanity being raised, the trial was traversed to the next sitting of the Supreme Court, May, 1947.

On May 5th, 1947, when Sears came before Mr. Justice G. A. Urquhart and Jury for trial, he was found fit to stand trial. After hearing the evidence on one charge of attempted murder, the jury returned a verdict of guilty and a sentence of twelve years in Kingston Penitentiary was imposed.

By reason of the decision of the Court of Appeal regarding the inadmissibility of statements given by Sears, it is unlikely any further action will be taken on the charges not tried.

Mrs. M. Jewell, Leamington, Essex County (reported 1946)

William Jewell, who was held in custody on a charge of murdering his mother was arraigned before Mr. Justice E. R. Chevrier and Jury on January 15th, 1947.

Before a plea was entered, the question of accused's sanity was raised. The jury having heard the evidence submitted, returned a verdict that the defendant was not fit to stand trial. The presiding Justice therefore ordered the accused to be kept in custody at the pleasure of the Lieutenant-Governor of the Province of Ontario.

Donald Hastings, Blenheim, Kent County (reported 1946)

Leo Duquette, wo was held in custody on a charge of the murder of one Donald Hastings at Blenheim, December 24th, 1947, came to trial before Mr. Justice G. A. Urquhart and Jury at Chatham, February 10th, 1947.

After hearing the evidence the Jury returned a verdict of "Not guilty of Murder" but "guilty of manslaughter" with which the presiding Justice expressed concurrence and sentenced Duquette to two years determinate and two years indeterminate in the Ontario Reformatory.

Marion Rusnak, St. Catharines, Lincoln County (reported 1946)

In this case, Sidney G. Chambers of St. Catharines, was brought to trial on March 7th, 1947 and was found "guilty" of the murder of this nine year old girl. A second trial, ordered by the Court of Appeal, commenced at the September Assizes in St. Catharines. Chambers was again found "guilty" of murder, and was sentenced to be hanged. A further appeal was made, which was dismissed, and the sentence of the court was duly carried out on December 16th, 1947.

The outstanding feature of this case was that the remains of the child were never found.

Mrs. Rita Taylor, Sarnia R.R. 3, Lambton County (reported 1946)

Joseph Taylor, the husband of this deceased woman, was tried for the murder of his wife on November 30th, 1946—was found guilty of Manslaughter and sentenced to twenty years in Kingston Penitentiary.

Mary Elizabeth Lama, Cornwall Township, Stormont County (reported 1946)

William Lama, who had previously been acquitted on a charge of murdering his wife in August, 1946, was brought to trial at the June Assizes in Cornwall in 1947, on a charge of murdering his twelve year old daughter. Despite the strong case presented against him, Lama was acquitted.

John Dick, Hamilton, Wentworth County (reported 1946)

In February, 1947, Evelyn Dick, the wife of John Dick appeared for her second trial, charged with the murder of her husband on March 6th, 1946. She was found "Not guilty."

Mrs. Dick was subsequently tried on a charge of murdering her baby son, Peter, an illegitimate child, and was found guilty of manslaughter and sentenced to life imprisonment.

Donald Maclean, father of Evelyn Dick, was charged with being an accessory after the fact, in the murder of John Dick, to which he pleaded guilty. Maclean was sentenced to five years imprisonment in Kingston Penitentiary.

William Bohozuk, a friend of Evelyn Dick, who was also charged in both instances, namely with the murder of John Dick and baby Peter, was tried and acquitted on both charges.

Joseph and John Fitzmaurice, Adamston Township, Renfrew County (Reported 1946

Thomas Gibbons, who had been granted a second trial on appeal, was again tried for the murder of the two above mentioned men, on February 1st, 1946.

The trial took place in April, 1947, when Gibbons was found "not guilty" on the grounds of insanity and committed to a mental institution to be kept in custody at the pleasure of the Lieutenant-Governor of Ontario.

John Dubinsky, South Porcupine, District of Cochrane (Reported 1946)

Marcel Desserres, who had been convicted and sentenced to be hanged for the murder of John Dubinsky, November 23rd, 1945, was granted a new trial on appeal. He was tried at Cochrane in October, 1947, and a very strong case was presented to the Jury. However, despite this, he was acquitted.

MURDER: (Reported in 1947)

Mary Maseau, Fox Lake, District of Sudbury

On February 9th, 1947, information was received by members of the Espanola Detachment, of the death at Fox Lake of one Mary Maseau, who it was alleged had died as a result of injuries received at the home of one Wilbert Guay of the Town of Merritt.

On evidence obtained as a result of the investigation, Crown Attorney Wilkins directed a charge of murder be laid against Mrs. Laura Nahwegeshik, sister of the dead woman, who was alleged to have severely beaten and kicked Mrs. Maseau.

Mrs. Nahwegeshik came to trial before Mr. Justice Barlow and Jury at the Supreme Court, Sudbury, March 3rd, 1947, where the charge of murder was reduced to manslaughter. On that charge, she was found "guilty," and sentenced to 18 months definite and 12 months indeterminate in the Ontario Reformatory.

Joseph Grant and Marcel Duchesneau, Schreiber, District of Thunder Bay

In February, 1947, one Charles Martin was held in custody by Royal Canadian Mounted Police in Moose Jaw, Saskatchewan, on a minor charge. Martin expressed a wish to see Police officers, indicating that he had certain information of value to convey. R.C.M.P. officers complied with the request, with the result that Martin unfolded an amazing story, going into the most minute details, which implicated him in a double murder in Ontario, which had never been reported to the authorities.

The scene of this tragedy was a mining prospect known as the Antelope Mine, situated some nine miles east and north of Schreiber. Two men, Joseph D. Grant and Marcel Duchesneau, who were connected with the mining property, had gone into the area early in December, 1946, for the purpose of closing the property for the winter. It would appear from Martin's story, which was corroborated during the investigation by the findings of the officers, that Martin had also gone into the mine property a day later than Grant and his companion. Evidence indicated that Grant had some $1,200.00 in his possession, which was established to have been taken from him by Martin, together with the jeep which had been driven by Grant and his companion into the area.

The finding of the bodies of Grant and Duchesneau three months after the murder, entailed a tremendous amount of work and was a tribute to the energy and resourcefulness of the investigating officers.

Charles Martin was tried at Port Arthur on a charge of murder and was convicted in Ontario, 1947, and sentenced to be hanged. An appeal was dismissed and the sentence was carried out at the appointed time.

Joseph M. Sherk, Rainham Township, Haldimand County

On March 4th, 1947, the body of Joseph M. Sherk, age 73, was found in the bedroom of his home. The deceased had been shot through the chest. A small combination safe located in another room in the house had been opened and the contents scattered about the room.

A thorough investigation was conducted, but to date no one has been apprehended in connection with this murder. A reward of $1,000 has been posted by the Province of Ontario.

Information which comes to the attention of our officers from time to time is being investigated, and there are still possibilities that a solution to this shooting will be found.

Robert Todd, Wavell, District of Cochrane

Robert Todd, 72 years of age, lived alone in a shack, situated near Wavell, on the Highway to Kirkland Lake.

During the month of March, 1947, Todd was not seen around the neighbourhood, but no great importance was attached to this, as he had been in the habit of visiting friends at a distance, and was also known to be more or less of a recluse. As time went on, however, Todd was not seen or heard from, and a search being made of the shack, his remains were found under the floor.

Evidence from the autopsy indicated that Todd had been severely beaten, causing injuries from which he died. Investigation resulted in a charge of murder being preferred against John Gagne, who had been in the vicinity of Wavell at the time of Todd's disappearance.

Gagne was finally located in Sherbrooke, Quebec, and was returned to Ontario for trial. He was convicted of murder at the Assizes held at Cochrane in October, 1947, and the sentence of hanging was duly carried out.

Mrs. Frederick Rupert and Lee Rupert, Pancake Bay, Algoma District

Frederick Rupert, with his wife and young son, operated a tourist camp on Pancake Bay, in the District of Algoma. One, Edgar James Simons, 19 years of age, was employed by Rupert as a handy man and guide, and there appeared to be the utmost harmony existing between the Ruperts and the hired man, until the time that a fire occurred on the Rupert property, some days preceding the murder.

On April 19th, 1947, Frederick Rupert left the property to purchase supplies, leaving his wife and child at the camp with Simons. Rupert returned to the camp about seven o'clock the same evening, to find his wife and child lying dead, and Simons missing. The autopsy revealed that death had been caused by shooting, and the fatal bullets were of .300 calibre, in the case of the child, and .22 calibre in the case of Mrs. Rupert.

A note was found in the house which stated that Simons was responsible for the shooting. Simons was arrested the same night, at the Rupert camp.

He was tried for the murder of Mrs. Rupert at the Assizes held in Sault Ste. Marie in October, 1947, was convicted and sentenced to be hanged. An appeal was dismissed and the sentence was duly carried out.

Albert Richer, Geraldton, District of Thunder Bay

Albert Richer, a taxi-driver, was shot and killed on April 20th, 1947 near Geraldton. Richer had been a recent arrival in Geraldton and was believed to have come from Quebec, but very little was known about him.

Our officers were able to trace his movements in Geraldton on the day of the shooting, up until the time that he picked up a fare in that town. His body was later found on the highway to the east, and his car was found abandoned in Hearst the following day.

No weapon was found, but it would appear that the fatal bullet was of .32 calibre. Several weeks of intensive investigation failed to reveal the slightest clue to the party or parties responsible for this crime, which is still being given attention as additional information comes to the notice of investigating officers.

John Starchuk, Mersea Township, Essex County

On April 23rd, 1947, it was reported to our Mersea Township detachment, that a murder had been committed on the farm of one Filinoff, Lot 18, Concession "C" Mersea Township.

When the officers arrived they found John Starchuk, age 72, dead from knife wounds in the throat.

Nick Stoyan, age 70, of the same address, was found to be suffering from wounds to the throat caused by himself, in an attempt to commit suicide. He was placed under arrest and eventually charged with the murder of Starchuk.

It was found that the two elderly men who lived together, had been on a drinking bout for two or three days preceding the killing, and that apparently bad feeling had developed.

Stoyan came to trial on May 5th, 1947, before Mr. Justice G. A. Urquhart and jury at Windsor, when he was found unfit to stand trial, and was ordered to remain in Custody at the pleasure of the Lieutenant-Governor of the Province of Ontario.

Frederick Desjardins, County of Frontenac

The body of Frederick Desjardins, who had escaped from St. John's Training School, Toronto, was found near Arden, north of Kingston, on May 7th, 1947. Desjardins had been shot through the head.

Victor Martin, age 14, who had also escaped from St. John's Training School, was charged with murder. Investigation showed that these two lads, after leaving the institution, had proceeded to Arden and had broken into a store at that point, stolen a rifle, small sum of money and some food.

Victor Martin admitted the shooting to Police, but his statement was not admitted at the trial. Chief Justice McRuer made the following remarks with regard to the non-admission of the statement:—

"A similar ruling would not necessarily have been made if the accused had been an adult. In the matter of Police questioning a juvenile to ascertain if he has committed a crime, the greatest care is required. A statement should be taken only after the greatest protection has been thrown around the accused by careful cautioning and other means. One can see that in questioning a juvenile in respect to evidence to be submitted to a court in a trial, the utmost caution must be used. In dealing with a juvenile it is of the greatest importance that the whole background of the accused should be examined before the case is settled. In this case, Martin was the youngest in a family of nine. He was said by a psychiatrist to have a mentality of ten years and eight months. According to the evidence, he had never known supervision and had little education. He was brought up in the streets. And yet he was brought before an ordinary Court to be tried for murder with a possible consequence of facing execution. In municipalities where the Juvenile Courts Act was in effect, a child who was alleged to have committed a similar crime could not be tried for murder. He would be regarded as one believed to have been a juvenile delinquent. A mature person who appears before an Ordinary Court is regarded as an offender against society. In the case of a juvenile, it is not so much regarded as an offence against society, but rather the case of one who required care and treatment. In a juvenile court, a case may be allowed to stand indefinitely so that the juvenile may be directed into proper paths without having had even a minor stigma attached to his name. A young person who had committed a crime, and if that crime should be one of murder, and if he should be tried in ordinary Courts with the possibility of execution, it does not commend itself to those who are required to administer justice in these courts."

Martin was acquitted and later transferred to the Training School for Boys at Guelph.

John W. Nidd, Shedden, Elgin County

On May 11th, 1947, John W. Nidd of Shedden, Elgin County, together with members of his family, attended a party, at which there appears to have been considerable drinking. During the evening, Nidd and one, George Rowe, had an argument, which terminated with Nidd being struck by Rowe, death ensuing from the injury sustained.

Rowe was first charged with murder, the Grand Jury returning no bill. On a second charge of manslaughter, Rowe was found "guilty" and sentenced to six years in the Penitentiary.

Mr. and Mrs. Herman Langley, Orr Lake, Simcoe County

On June 6th, 1947, information was received by District Headquarters, Barrie, that James Herman Langley and his wife Ida May Langley, had been found dead in bed.

From investigation made it was found that both had died as a result of bullets fired from a .22 calibre revolver, and that the wife had apparently been killed by being shot through the head by her husband, who had then shot himself in the head above the right ear with the same weapon.

When the bodies were found Langley still had the revolver tightly clenched in his right hand.

The autopsy disclosed conditions from which it was decided that Mrs. Langley had died at least 24 hours before her husband, also that both had been dead from three to four days.

An inquest was held June 18th, at which a verdict was returned to the effect that Mrs. Langley was shot and killed by her husband, who then committed suicide.

Sidney F. Hall, Ailsa Craig, Middlesex County

Sidney F. Hall was employed as a night-watchman at the Ailsa Craig Branch of the Canadian Bank of Commerce. In the early hours of June 7th 1947, these premises were forcibly entered and Hall was fatally shot, presumably while defending himself, as the bank revolver was found by his side, with two shots recently fired therefrom.

An alarm was quickly given, but the perpetrators of this brutal crime had had ample time to make their escape. Our officers have been continuing this investigation, and while there are good reasons to suspect that certain persons are concerned with the matter, evidence warranting a prosecution is so far unavailable.

Max A. Von Matt, Thunder Bay District

On June 13th, 1947, in consequence of investigation by a Provincial Constable of Port Arthur District Headquarters, one Max Von Matt, age 31, was arrested on a charge of murder and after several remands, including a remand to the Ontario Hospital—Fort William for observation, he was brought before the Fall Assize Court at Port Arthur on October 7th, 1947, with Mr. Chief Justice J. C. McRuer presiding. A verdict of "Not guilty" was returned on grounds of insanity and Max Von Matt was ordered kept in strict custody pending the pleasure of the Lieutenant-Governor of Ontario. Max Von Matt had been more or less a mental problem to his parents all his life..and on the morning of the shooting had asked his mother to get his breakfast, and had been told to get it himself; later the father, downstairs, heard some noise upstairs and on going up had found Max with a revolver in his hand. At this time the mother came in and on approaching Max with the evident intention of taking same away from him, he pointed it at his Mother and pulled the trigger, the bullet striking the mother in the chest region inflicting wounds from which she died the following day.

Velair Vandebelt, Cochrane, District of Cochrane

Velair Vandebelt, 23 years of age, was a nurse employed at the Lady Minto Hospital in Cochrane. On the night of June 21st, 1947, Miss Vandebelt, together with five of her friends, attended a party which was held at a cottage on Silver Queen Lake, some twenty miles north of Cochrane. This cottage was owned by one of the party, and it is quite evident that a good deal of drinking took place. The party ended about three o'clock in the morning and some of the group prepared to leave for Cochrane. The owner of the cottage and his male friend had decided to stay at the cottage over the weekend. Suddenly Miss Vandebelt made it known that she was going to stay over the weekend, and on hearing this, the owner's friend said that if the girl was going to stay he would not stay. There was a good deal of banter and horseplay going on outside the cottage amongst Miss Vandebelt and the owner and his friend, and none of the party seemed to be clear as to what actually was happening. Suddenly it was made apparent that Miss Vandebelt was missing from the party, and it was stated that the other members of the party called to her, and also searched around the vicinity of the cottage, she was not seen alive again.

There was a delay of some thirty-six hours before the girl was reported missing, and a subsequent search of the vicinity resulted in the finding of the body in the bush, some three hundred yards from the cottage. The investigation which followed showed that the girl had been strangled by her own belt, and there was also a fracture of the skull.

The owner of the cottage, Rocco Sisco and his friend, Roger Gauthier, were charged with the murder of Velair Vandebelt. They appeared before the District Magistrate for preliminary hearing, when the charge was dismissed, the Magistrate feeling that the evidence did not warrant his making a committal.

James Rock, La Sarre, Quebec, District of Cochrane

In the late winter of 1946, James Rock, an Indian living in LaSarre, Quebec, set out with his brother David and female members of the Rock family, to go over their trap lines, which were located in Northern Ontario. In due course all of the party returned, with the exception of James Rock. Various explanations were given to account for the absence of James Rock, who had been living with his brother David at intervals for many years. No alarm was given, however, until July of 1947, when the female members of the Rock family, apparently unable to bear the strain, made it known that James Rock had been shot and killed by his brother, David, and buried on one of the trap lines.

Under difficult conditions, our investigators were flown into the locality where the shooting occurred, and succeeded in locating the remains of James Rock. David Rock was charged with the murder of his brother, James, the charge being reduced to manslaughter, to which he pleaded guilty.

There appeared to be some extenuating circumstancs and David Rock was sentenced to two years in the Penitentiary.

Ida Cada, River Rouge, Michigan

On July 13th, 1947, about 10.30 p.m. Henry Leo Cada, age 28, U.S. Army veteran, enquired at the house of Ray Dawson, Romney Township, County of Kent, and requested that a good surgeon be summoned. Lacking a full explanation, Dawson phoned the police. Proceeding to a neighbouring farm, they were met by Dr. M. C. Edsall of Wheatley, whereupon Cada confessed that he had killed his sister and forthwith directed them into a barn and up into a loft where they found the body of Ida Cada, age 21, lying prone with her jugular vein severed. A constable arriving on the scene, placed Cada under arrest and took from him the murder weapon, a jack knife.

Investigation revealed that the principals were U.S. citizens and had entered Canada illegally. With a family background of insanity, Cada, previously discharged from a mental institution, took exception to the confinement of his sister in a similar hospital. An unnatural love existed between them and during a trial visit to her home, Ida eloped with her brother to Canada and away from jurisdiction of the asylum.

Cada was subsequently charged with murder but at the Kent Assizes in September, 1947, on a trial with sanity as an issue, was found unfit to instruct counsel and committed to a mental institution.

Clayton Cottrell, Machar Township, District of Muskoka

On July 27th, 1947, Clayton Cottrell, age 39, residing in the Township of Machar, District of Muskoka, was shot and killed by his wife, Edna Cottrell.

Investigation made by the Burks Falls Detachment showed that Mrs. Cottrell lived in constant terror of her husband, by reason of his drinking habits, and licentious intentions towards his young daughters.

That on the night of the fatal shooting, he had come home in an intoxicated condition, had continued to drink cheap wine until he had become what might be termed sex crazy, and that the mother to protect her young daughters from the sexual intentions of their father, had shot and killed him with a bullet from a .22 calibre rifle.

Mrs. Cottrell was arrested and charged with the murder of her husband.

She came up for trial before Mr. Justice Kelly and jury at the sitting of the Supreme Court at Parry Sound, October 20th, 1947, where the jury returned a verdict of "Not Guilty."

Charles Bell, Goderich, Huron County

On the night of September 15th, 1947, a drinking party was in progress at the home of Frederick Littlechild, Goderich. The party consisted of Mr. and Mrs. Charles Bell and Mr. and Mrs. Frederick Littlechild. A fight started between the two men, with the result that Bell was stabbed and died from the effects of the wounds.

Frederick Littlechild was charged with murder and will appear for trial at the Goderich Assizes in January, 1948.

Betty Playford, Owen Sound, Grey County

One of the most brutal murders ever to come to the attention of this force, occurred on the outskirts of Owen Sound in 1947. On Sunday, September 21st, about four p.m. Betty Playford, eleven years of age, left her home to visit with neighbouring children. When eleven o'clock came, and the child had not returned to her home, the parents notified police, who ascertained that the child had left the neighbours to return home at eight-thirty p.m.

A search commenced immediately and an officer was sent from the Criminal Investigation Branch to assist in the enquiry. It was not until nine-thirty the following morning that the remains of the child were found in a ditch, some three hundred feet outside the city limits.

An autopsy revealed that the child had a fractured skull and also that there had been an attempt to criminally assault her. While our officers were continuing the investigation in the vicinity of the crime, a man named Frederick Bussey called on a reporter in the City of Montreal and gave him a story as to how the Playford child had come to her death, naming himself as the perpetrator of the crime.

Bussey repeated his statement to Police Officers and he was eventually returned to Ontario and charged with the murder of Betty Playford. Overwhelming evidence was presented to the Court and Bussey was found guilty as charged and sentenced to be hanged on February 4th, 1948.

Gordon George Springgay, St. Catharines, Lincoln County

Gordon George Springgay, 41 years of age, was reported missing from his home in St. Catharines on October 11th, 1947.

On October 16th, his body was found in the Martindale Pond on the outskirts of St. Catharines. A joint investigation is still underway, being carried out by Ontario Provincial Police and St. Catharines City Police.

There is every indication that the deceased was involved in a fracas with two well known and disreputable characters in St. Catharines and this angle is being pursued.

A reward of $1,000 has been posted by the Province of Ontario.

Ralph Margeson, York Township, York County

Ralph Margeson was employed as a taxi driver and resided in York Township, York County. About midnight on the 11th of November, Margeson picked up a fare in York Township and drove to Dundas and Dufferin Streets, Toronto. About 12.30 the same night, Margeson telephoned his dispatcher that he had picked up another fare and was proceeding to Port Credit. Nothing further was heard from Margeson.

At 8.45 a.m. the abandoned car was found in the City of Toronto at Weston Road and St. Clair Avenue. Toronto City Police notified this office, and as there were bloodstains in the car, asked for our co-operation. On the same afternoon the remains of Margeson was found in a ditch on the Dixie Road, in the Township of Toronto. Death had occurred from a bullet wound in the head, which was found to be from a .45 revolver.

The three police forces concerned are co-operating in this investigation, which has offered no solution to date, to the parties responsible for this crime. A reward of $1,000 has been posted by the Province of Ontario.

Isaac Hill (Indian) Six Nations Reserve, Ohsweken, Brant County

On the 9th of November, Royal Canadian Mounted Police, stationed at this Reserve, were notified that Isaac Hill had been assaulted. Officers of the R.C.M.P. responded and commenced to investigate the matter and Mr. Hill was removed to the hospital on the Reserve, where he died eight days later.

An autopsy revealed that death was the result of a fractured skull. Assistance from this force was then requested and our officers co-operated with the R.C.M.P.

As a result, a charge of murder has been laid against one Maynard Jonathan, who is also an Indian, and he has been committed for trial on this charge.

Florence M. Welch, Aylmer, Elgin County

Florence M. Welch was the wife of Vernon J. Welch, who had served in the R.C.A.F. and was at the time of the death of his wife, residing in the town of Aylmer.

On August 21st, 1947, Mrs. Welch was taken ill and died shortly afterwards of strychnine poisoning. Investigation indicated that there has been domestic trouble, and that the husband had recently purchased strychnine under an assumed name. As a result of this information and other circumstances, a charge of murder was laid against the husband, who has been committed for trial.

Quadruple Murder and Suicide of the Letson Family, West Montrose, Township Of Woolwich, Waterloo County

On December 28th, 1947, at 7.10 p.m. our Kitchener Detachment office received a telephone call from Dr. L. Wagner, Coroner, Elmira, requesting we investigate the circumstances surrounding the death of one Walter P. Letson, at the Letson home in the Township of Woolwich.

A patrol was immediately made to the Letson home where the dead body of Walter P. Letson was found on a couch in the kitchen of the home with a 12 gauge double barrel shot gun, containing a discharged shell, between his legs.

Further search of the house and premises disclosed the dead bodies of the following, all of whom died from shot gun wounds—Percy Letson, 28 years; Hugh Letson 45 years; Mrs. Mary Letson, 45 years (wife of Hugh); all found in the dining room, Wilson Letson, 42 years, found in the garage.

Investigation and reconstruction of the tragedy revealed that Walter P. Letson had been keeping company with one Eleanor Springer, age 18 years, of R.R. 1 West Montrose, who had recently transferred her affections to Wilson Letson. Miss Springer had spent the past few days at the Letson home and on the evening of December 27th, she had accompanied Mr. and Mrs. Hugh Letson and Wilson Letson to Kitchener, leaving Walter Letson, and Elisha Pollock, age 87 years, at the Letson home. The party returned from Kitchener at about midnight and were met at the garage by Walter Letson who was carrying a shot gun. He ordered the occupants out of the car and shot Wilson Letson as he stepped from it. He then, or shortly afterwards, it is alleged, shot the other three members of the family and committed suicide. Further investigation determined that there had been some drinking at the Letson home, and this, coupled with jealousy, it is surmised was the cause of the tragedy. No inquest was held.

James Gordon Angus,—Attempted Murder, Cobourg

On April 27th, 1947, our Cobourg Detachment was notified that a woman named Mrs. Anita Angus, age 39, had been admitted to the Cobourg General Hospital suffering from a knife wound.

The officers proceeded to the Cobourg Hospital. Upon arrival there they learned that John Jackson, age 45, had been admitted at the same time as Mrs. Angus. Mrs. Angus was suffering from a deep cut on the little finger of her right hand, and also a minor cut on her throat. John Jackson, however, was very seriously injured. He had been stabbed with a knife, causing a deep penetrating wound on the left side of his abdomen, from which protruded twenty four inches of his small intestine.

James Gordon Angus was apprehended and charged with attempted murder.

The preliminary hearing in the case was heard on May 22nd and 23rd, 1947, at Cobourg, before His Worshio Magistrate R. B. Baxter and Angus was committed for trial.

On Monday, November 3rd, 1947, at the Supreme Court in Cobourg, Ontario, Angus appeared before His Honour Justice P. E. F. Smily and was found "Not Guilty."

MANSLAUGHTER

Death of Isabel Cornish, Bruce County

On March 15th, 1947, Isabel Cornish, age 16, of Ripley, Ontario, died in the General Hospital, Kincardine, from unknown causes.

A Postmortem examination was held and it was discovered that death had occurred as a result of an illegal operation.

An investigation resulted in the arrest of one George L. Murphy, who was charged with manslaughter by means of committing an abortion.

He was tried before Mr. Justice Genest and Jurt at Stratford, convicted, and sentenced to seven years in Kingston Penitentiary.

Elbey L. Martin, Stamford Township, Welland County

This charge of manslaughter arose out of an unusual occurrence, which had its inception in the City of Niagara Falls. About midnight on September 19th, 1947, Constable W. R.Kinghorn, Niagara Falls City Police, was on his tour of duty at the time in question when he observed an automobile being driven in a reckless manner, passing through traffic signals at a high rate of speed. The officer endeavoured to stop the car, but was unsuccessful. He then fired a warning shot into the air from his .38 calibre revolver. At the time the third shot was fired, the officer was close to the borderline between the City of Niagara Falls and Stamford Township. The third shot, fired in the City of Niagara Falls, struck and killed Elby L. Martin, who was walking on the sidewalk in Stamford Township.

As a result of this unusual situation, assistance was requested from the force in investigating the matter. The evidence obtained was submitted to a Coroner's jury who found that the cause of death was accidental. Subsequently, following an established custom, it was decided to charge the constable responsible for Martin's death with manslaughter.

Constable Kinghorn appeared for Preliminary hearing and was discharged by the presiding Magistrate.

DEATHS FROM UNNATURAL CAUSES

Christina Kettlewell, Severn River, Muskoka District

Apart from murder and manslaughter, there were a number of other investigations into deaths from various causes.

One of these which aroused much public interest was that of Christina Kettlewell, nee Mocon, 23 years of age, who lived with her parents in Mimico prior to her marriage.

The girl's husband, John Ray Kettlewell, also a resident of Mimico, had become acquainted with Christina some three years prior to her death. John Kettlewell had a friend named Ronald Eugene Barrie, a single man, 26 years of age, also living in Mimico. Investigation revealed that relations between the two men appeared, to put it mildly, to be unnatural.

The girl and the two men had formed the habit of being together more than is usual in such circumstances. Some eight days prior to the occurrence that led to the death of Christina on May 20th, 1947, she was married to John Kettlewell, and the three persons proceeded to a cottage on the Severn River, in Muskoka District, owned by Ronald Barrie.

There is strong suspicion that for some time prior to her death, Christina Kettlewell had been in a condition of mind other than normal, and there is every indication that she had been taking some form of medicine or drug, in fact, to induce this condition of mind.

Until the time in question, this girl had been employed by a branch of one of the chartered Banks in Toronto, and she was considered to be a capable employee.

Following the arrival of John and Christina Kettlewell and Barrie at Barrie's cottage, it appears that this state of mind continued, and there is evidence of conversations between Mrs. Kettlewell and Barrie, indicating that she was worried over the question as to whether or not her husband cared for her. It was during this period that Christina developed fits of crying and also appeared to be in a dazed condition for a greater part of the time.

Four days after their arrival at the cottage, Christina Kettlewell disappeared, and her body was recovered the same evening in the Severn River, about 150 feet from the Barrie Cottage. There were no marks of violence on the body and death was attributed to drowning.

An inquest followed, which continued for some days, and while there was no evidence adduced to connect either of her two companions with the actual death of Christina, there was certain evidence to indicate that this girl had been very worried and distressed by the unnatural conduct of her husband and Barrie, which, while not being capable of being proven, was evidently suspected. Christina wrote a number of letters which were known to be in her handwriting, and in which she indicated her state of mind and also expressed her intention to take her own life.

While it was felt at the time that there might be some aftermath to this enquiry, nothing further has so far developed.

Jean Badgley, Frankford, Hastings County

Another investigation that created a good deal of interest was that arising from the death of Jean Badgley, Frankford, as a result of a gunshot wound.

Jean Badgley, 23 years of age, was found dead in the home of her parents on November 30th, 1947. Death had resulted from a bullet from a .22 calibre rifle, which was found alongside the body. The rifle belonged to the girl's father, a retired farmer, and was kept hanging on the wall of a room in the house, and was loaded.

A thorough enquiry was made into the circumstances, particularly in view of the fact that the body was discovered by a male friend of the girl who had called for her by appointment that evening. Miss Badgley was alone in the house, her parents having gone to church. Every angle of this tragedy was gone into by the officers investigating and there appeared to be no reason to believe that this girl had been attacked by any person.

Evidence submitted before the Coroner's Jury resulted in a verdict to the effect that Jean Badgley had come to her death as the result of a self-inflicted gunshot wound.

ROBBERY, ARMED

Canadian Bank of Commerce, Selkirk, County of Haldimand, May 31st, 1946

This matter, outstanding since May, 1946, was disposed of when Antonio Furey and R. St. Denis appeared for trial at Cayuga in November, 1947, charged with the armed robbery of the above mentioned bank, and were found "guilty."

Furey was sentenced to seven years and St. Denis to four years in Kingston Penitentiary.

Re Armed Hold-up of Imperial Bank of Canada, Stamford Centre, Welland County

With reference to the above subject, on 3rd June, 1947, the Imperial Bank of Canada, Stamford Centre, Ontario, was held up and robbed of $7,400.00 in cash and $12,050.00 in bonds by one Harry Duguid of 68 Winona Drive, Toronto, who was chased and captured by a member of Niagara Falls Detachment. All of the bonds and money, with the exception of $15.00 was found intact in a bag in the possession of the culprit. This man, after being questioned, admitted having broken into the bank, alone, and was therefore arrested and charged by the Chief of Police of Stamford Township, with Armed Robbery.

On 11th June, 1947, Harry Duguid, who is aged 32, appeared before Magistrate J. B. Hopkins at Police Court, Niagara Falls, elected trial by Judge and Jury and pleaded "guilty" to the said charge. Duguid was committed for trial by the Magistrate and remanded to the Welland County Jail. The Toronto City Police had also charged him with Armed Robbery of the Dominion Bank of Canada, Branch corners of Dovercourt and Davenport Roads, Toronto, which was held up on 12th November, 1942.

Between the 4th and 5th August, 1947, Duguid escaped from the Welland County Jail, and to date has not been apprehended. This investigation continues.

Royal Bank of Canada, Smithville, Lincoln County

On March 12th, 1947, the Royal Bank of Canada Branch at Smithville was held up and robbed of some $2,000, together with the bank revolver. An investigation was held by our local detachment, and some three months later the bank revolver was found in a room occupied by one Krywiarchuk, who was later charged with robbing the Bank of Nova Scotia at Campbellville.

The finding of this revolver indicated that this man had been implicated in the robbery at Smithville, but in view of the fact that he received a heavy sentence in connection with the Campbellville robbery, the Crown Attorney took no further action.

Royal Bank of Canada Branch, Fenwick, Welland County

On June 12th, 1947, this bank was held up and robbed of approximately $7,000.00. There was every reason to believe that one Tony DeCecca, together with John Krywiarchuk were involved in this robbery.

DeCecca was charged with armed robbery and committed for trial, appearing before the Grand Jury who found no bill. Krywiarchuk was not proceeded against in view of the fact that he had received a sentence of twenty years in connection with the Campbellville bank robbery, together with the fact that the evidence against him in the Fenwick bank robbery did not appear to warrant further action.

Bank of Nova Scotia Branch, Campbellville, Halton County

This branch of the Bank of Nova Scotia, located some eight miles east of Milton and more or less isolated, was held up by four armed men on July 8th, 1947, and approximately $100,000 in cash and securities stolen.

After a lengthy investigation, evidence was obtained which indicated that John Krywiarchuk, Garth Miller and Leo G. Burnell and Tony DeCecca were responsible for this robbery, and warrants were issued for these four men.

Burnell has not yet been apprehended. Krywiarchuk was tried at Milton, found guilty and sentenced to twenty years in Kingston Penitentiary. Garth Miller and Tony DeCecca also appeared for Preliminary hearing, but there was insufficient evidence to proceed, and the charges were withdrawn.

In the event of Burnell being apprehended, there will be a strong case against him, and it is possible that the three men, Miller, DeCecca and Burnell will be jointly charged.

A number of the stolen bills were found in possession of John Krywiarchuk and at the trial were identified as part of the stolen bills from this bank.

Bank of Nova Scotia, Carp, Carleton County

On the night of July 28-29th, 1947, this Branch Bank was entered by removing a brick wall surrounding the vault of the bank. Some seventy safety boxes were opened and the contents of many of them, consisting of stocks, bonds and other securities, were stolen.

Investigation indicated that parties from Quebec were responsible for this offence, and a large quantity of the stolen bonds, etc. have been recovered by Quebec Provincial Police. This investigation is proceeding.

Canadian Bank of Commerce Branch, Pickering, Ontario County

On August 13th, 1947, the staff of the Pickering Branch, Canadian Bank of Commerce, was held up by two armed men and approximately $14,000 together with two revolvers belonging to the bank, were stolen.

Our investigating officers were able to obtain evidence the same day to the effect that a certain car had been seen several nights prior to the robbery under suspicious circumstances. The ownership of this car was determined and, as a result, on the day of the robbery, two men, Theodore Greger and Frank Polanski, were apprehended and the bulk of the money recovered, together with two bank revolvers. Both of these men were charged with armed robbery and subsequently appeared in the County Judge's court, where they pleaded "guilty" and were sentenced to eight years each in Kingston Penitentiary. On appeal this sentence was rduced to six years.

This investigation was another example of the value of co-operation resulting in a speedy conclusion to what is usually a long drawn-out investigation.

Imperial Bank, Caledon East, Peel County

On September 24th, 1947, the Branch of the Imperial Bank at Caledon East, was held up by three armed men, who, after ordering the bank employees and customers to lie on the floor, robbed the bank of $7,000.00 in cash and escaped in an automobile.

Suspects are being held in connection with this occurrence and the investigation is proceeding.

PRISON BREACH

Welland County Jail, Welland

During the year 1947, there were two prison breaks. The first one occurred from the Welland County Jail when Harry Duguid, who was charged with armed robbery, in connection with a bank at Stamford, made his escape. He managed to saw his way out during the night and to date no trace of this man has been found.

A wide circularization of this escape was made, both in the Dominion and the principal cities of the United States. There is every reason to believe that more will be heard of this man in due course.

Kingston Penitentiary, Frontenac County

Another daring escape was made from the Kingston Penitentiary when three hardened criminals made their escape during August of last eyar. These inmates of the Penitentiary were Ulysse Lauzon, Donald (Mickey) McDonald and Nicholas Minnille, all sentenced to long terms.

Following their escape, it is believed that at least two of these men were involved in a $40,000 armed robbery in Windsor.

Royal Canadian Mounted Police made a wide circularization, offering a large reward for the apprehension of these men.

From time to time, various rumours have been received from many parts of the Province, to the effect that these men are in the vicinity, all of which have been investigated, without result. There is a tendency amongst certain officials to believe that at least two of these escaped criminals have found some haven in the United States although nothing definite has come to our attention.

Each and every rumour regarding their whereabouts, is, as far as possible, traced to its source.

ARMED ROBBERY

Mrs. Bertha Thomas, Thomas's Edgewater Inn, Riverside, Essex County

Mike Kosowen, Angus Robinson

The marginally noted subject was mentioned in Annual Report for 1946, dealing with the investigation, arrest and pending trial of Mike Kosowen and Angus Robinson for Armed Robbery.

From evidence submitted, both accused were committed for trial. On January 13th, 1947, Kosowen and Robinson were arraigned at Windsor before Mr. Justice E. R. E. Chevier at Supreme Court Sittings for Essex County.

The only defence offered by the prisoners, was through a convicted criminal who attempted to discredit the identification made at a line-up.

On January 21st, the Jury returned a verdict of "Guilty" and on January 24th, both accused were sentenced: Mike Kosowen to eight years and Angus Robinson to 12 years with ten strokes of the strap at Kingston Penitentiary.

The conviction and sentence was appealed but both were upheld by the Appeal Court of Ontario.

ROBBERY WITH VIOLENCE

George Predy—Thorold South

John Wagner, Hamilton, Mike Swalik, Toronto, James Blasiewicz of Hamilton, Helen Williams, Thorold South and Madelaine Nickason, Hamilton

On the night of January 27th, 1947, three men and two women attempted to hold up the poolroom of George Predy, 206 Davis Street, Thorold South, Welland County. Shortly after this occurred, information was received from the St. Catharines Police Department to the effect that five people were arrested by them, who admitted bing implicated in this crime.

The five accused were charged with Robbery with violence.

The proprietor, Mr. George Predy was very severely beaten up and received an eight inch cut on the right hip, two inch cut on the right side of the neck and a one inch cut on the left. The stolen money and articles were recovered and returned to Mr. Predy.

On February 18th, 1947, all five accused appeared before Magistrate H. G. Hallett, at Magistrate's Court. John Wagner and Madelaine Nickason pleaded "not guilty" to the charge and elected summary trial. These two accused were represented by Mr. Allan Brooks, K.C. As there was insufficient evidence to show that these two accused were a party to the offence, they were found "not guilty" by His Worship. Helen Williams, Mike Swalik and James Blaskiewicz pleaded "not guilty" and elected to be tried by Judge and Jury.

On the 3rd June 1947, Helen Williams, Mike Swalik and James Blaskiewicz, appeared before His Honour County Judge H. E. Fuller and Jury at the General Sessions of the Peace in Welland, when the jury found Helen Williams "not guilty" on the said charge. The charge of robbery with violence laid against Mike Swalik and James Blaskiewicz was reduced to one of Assault occasioning actual bodily harm. Swalik on this charge was sentenced to six months definite and six months indeterminate in the Ontario Reformatory; and Blaskiewicz was given a term of two years in Kingston Penitentiary.

ARMED ROBBERY

Ontario Hospital, Whitby, Ontario County

In the early hours of February 28th, 1947, The Ontario Hospital at Whitby was visited by four masked men, who held up the members of the staff who were on duty, relieved them of their keys and personal belongings and proceeded to the Hospital Dispensary where they stole practically all of the narcotics that were available. No harm was done to the staff and their personal belongings were returned to them.

An alarm was given shortly after the men left, with the stolen narcotics, and a few hours later our local officer, together with Whitby Town officers, discovered a Buick car stalled in a snow bank, which later turned out to be one of the cars involved in this robbery. As narcotics were involved in this case, Royal Canadian Mounted Police co-operated with our investigators, with the result that the following persons were charged and convicted, receiving sentences indicated.

Robert Willis —Armed Robbery—5 years Kingston Penitentiary
Possession of offensive weapon—2 years consecutive
Possession of drugs—1 year consecutive and 6 months in default of payment of $200.00 fine.

Robert Tucker —Armed Robbery—5 years Kingston Penitentiary
Possession of drugs—1 year consecutive and additional six months in default of payment of $200.00 fine.

Frank Povinsky —Armed Robbery—2 years, Kingston Penitentiary
Possession of drugs—1 year consecutive and additional six months in default of payment of $200.00 fine.

Elgin K. Richards—Armed Robbery—2 years, Kingston Penitentiary
Possession of drugs—1 year consecutive and additional six months in default of payment of $200.00 fine.

Michael Povinsky—Conspiracy to obtain drugs—1 year, Ontario Reformatory
Possession of drugs—6 months and additional 6 months in default of payment of $200.00 fine.

This case was brought to a successful conclusion through the co-operation of the Royal Canadian Mounted Police, Whitby Town Police and Ontario Provincial Police.

Flock, Douglas Arthur was arrested at Woodstock, January 25th, 1947, and charged with Armed Robbery. The accused appeared before Magistrate D. B. Menzies at London on February 3rd, 1947, where he pleaded guilty as charged and was sentenced to six years in Kingston Penitentiary and ten lashes.

Laurier Fournier and Roland Duperron appeared in Magistrate's Court, L'-Original, Ontario, on a charge of robbery with violence. Both elected trial by the Magistrate.

Duperron was found guilty as charged and Laurier Fournier pleaded guilty.

Both were sentenced to serve five years in Kingston Penitentiary.

In this case, Fournier and Duperron hired a taxi from Hawkesbury late in the evening of April 19th, 1947, and were to be driven to Vankleek Hill. When a short distance from Hawkesbury the driver, Simon Leduc was requested to stop. The two criminals then subjected Leduc to a severe beating and took his money and watch.

Descriptions of the wanted men were obtained, and the officers, after an intensive search were successful in recognizing them on the main street in Hawkesbury and effecting their arrest.

John Nikkanen, Oba, District of Algoma

On Sunday, March 2nd, 1947, a telegram was received from Mr. L. Viohonan, Manager of the Oba Hotel at Oba, Ontario, by our Foleyet Detachment, stating that a John Nikkanen had been assaulted and robbed in Oba, on Saturday night by two men, who had robbed him of $170.00 and who were supposed to have left by freight from the East.

This complaint was investigated by our Hornepayne Detachment, who on March 2nd, 1947, arrested at Hornepayne, Henry Laurin and Harold Hurst, and who, on being searched, were found to be in possession of $170.00, the same amount as had been taken from John Nikkanen.

They appeared before Magistrate W. F. Woodliffe, at Sudbury, on March 11th, 1947, when Hurst was sentenced to two years in the Kingston Penitentiary, as he was considered by the Magistrate to be the leader of the pair. His accomplice was sentenced to six months definite and six months indefinite.

Keith Parks, Robbery with Violence, Thunder Bay District

On April 21st, 1947, a taxi driver by the name of Thos. Hasty was hired by three young men who stated they wanted to be driven to Pearl about 30 miles east of Port Arthur. When some five miles east of Port Arthur, one of the men asked the driver to stop as he wanted to relieve himself.

On stopping, the driver Thomas Hasty, was sat upon and knocked out. Later recovering his senses, he found himself on the floor of the car and a short time later the car was stopped and he was thrown out into the ditch, where he was left after being kicked a few times.

Subsequent investigations led to the arrest of Keith Parks age 19 years, who corroborated the story as told by the taxi driver, that he had been beaten up and robbed of his money and car.

Keith Parks was charged with robbery with violence, elected Summary trial and entered a plea of "Guilty" and on May 10th, 1947, was sentenced to serve a term of three years and six months in the Manitoba Penitentiary at Stony Mountain, in addition to receive eight lashes.

Circular has been issued in respect to the other two persons implicated in this affair, and although, with the co-operation of the R.C.M. Police, enquiries have been conducted from Coast to Coast and no trace as yet has been found of the two wanted men.

The assistance rendered by the members of the Port Arthur police department brought about the arrest of Keith Parks and the work performed and still being performed by the R.C.M. Police and other police forces and the members of this Department is duly appreciated, and it is hoped that in the near future evidence will be secured which will bring about the arrest of the other two participants in this robbery.

Gordon Baker, Hamilton, Grimsby Township, Lincoln County

On August 5th, 1947, a call was received from the Crown Taxi Company of Hamilton, stating that one of their taxi drivers had been held up at the point of a gun about three miles West of Grimsby on the Queen Elizabeth Highway, and that the taxi had been stolen, being a 1947 Oldsmobile Sedan, with License No. 10H88.

An investigation of this matter was made at once, and the taxi driver involved, Gordon Baker, who was still in Grimsby was located and questioned, and stated that he had received a call to pick up two fares at the corner of Tisdale and King Streets in Hamilton, and was requested to drive them to Grimsby, and that when he was about three miles west of Grimsby in North Grimsby Township, one of the passengers pointed a gun at him, and ordered him out of the cab, where he was bound with adhesive tape and left at the side of the road after they had robbed him of about $30.00. They then drove off with the taxi cab.

The taxi cab was recovered with two men in it by the Stamford Township Police, who arrested them. These two men, namely Edwin Thompson and Reginald Farnham, were charged jointly with Armed Robbery, and on August 6th, 1947, appeared before Magistrate Hallett on the said charge and pleaded "not guilty."

After hearing the evidence, the Magistrate found Thompson and Farnham "guilty" as charged.

Farnham was sentenced to three years and six months in the Penitentiary, and Thompson was sentenced to eighteen months in the Ontario Reformatory.

Thomas Miller and James McCoy, near Paris, Brant County

On the night of September 27th, Thomas Miller and James McCoy while driving along the Highway near Paris, Ontario stopped and picked up three hitch hikers. After proceeding a short distance, these men held them up at revolver point and took their money, put them out of the car and then drove away. Later three men were arrested and gave the names of John Sholtanuk, Gordon McLean and Elgin Walker.

They appeared for a preliminary hearing and were committed for trial.

On November 27, 1947 they appeared before a Judge and Jury in County Judges Criminal Court, were found "guilty" on the charge of Armed Robbery, Sholtanuk and McLean were sentenced to four years and Walker received two and a half years in the Penitentiary.

Melvin Jenson, Norfolk County

During the early hours of the morning of September 27th, 1947, a man hired a taxi driven by Melvin Jensen in Tillsonburg, to drive to Hamilton. When near Courtland in Norfolk County, he held up Jensen at the point of a revolver, robbed him of his money and taxi cab. Later this man was arrested and gave the name of Charles Kelly.

Kelly appeared in Court, pleaded "guilty" and was sentenced to three years in Kingston Penitentiary.

Kenneth Cummings, Township of Mountain

On September 17th, 1947, Thomas Hill, Ernest Sullivan and John Stenerson appeared in Magistrate's Court, Winchester, Ontario, and pleaded "guilty" to a charge of Armed Robbery.

All three were sentenced by Magistrate D. Smith to one year definite and one year indefinite in the Ontario Reformatory.

Th circumstances in connection with this case were as follows: During the night of September 7th-8th, 1947, one Kenneth Cummings of the Township of Mountain, was awakened by an armed bandit who entered his house and demanded money, two other bandits remaining outside; Mr. Cummings being robbed of $35.00.

Walter Orr and William Plante, Sioux Lookout, District of Kenora

On September 6th, 1947, Walter Orr and William Plante were beaten and robbed by a group of unknown men near Sioux Lookout, Ontario. As a result of the consequent investigation conducted by the Provincial Constable of Sioux Lookout Detachment, the five culprits responsible were placed under arrest and all charged with "Robbery with Violence."

All the five men concerned were taxi drivers operating in the Town of Sioux Lookout, namely John Gilchrist, Robert Mosher, Harvey McGowan, John Featherstone, and Michael Ivanovitch, and were just commencing to develop a habit of taking their "drunken fares" to isolated sections outside the town, to throw them forcibly out of their taxis, beat them up and then rob them of their money.

The ringleader of this group, Gilchrist, a powerfully built young giant in stature, was found to have a lengthy previous criminal record dating back to 1930, was also found to be implicated in both of the occurrences reported, as a result two such charges were preferred against him.

On October 4th, 1947, Mosher, McGowan and Featherstone appeared before Magistrate T. H. Wolfe at Kenora, Ontario, and received a term of 18 months definite and four months indefinite in an Ontario Reformatory.

On October 8th, 1947, Gilchrist appeared before the same Court and received terms of two years and one year consecutive, in the Manitoba Penitentiary.

On December 15th, 1947, Ivanovitch, the last member of this group, who had elected trial by the Judge E. C. Popham of Kenora, was found "guilty" as charged and on the following day received a term of 18 months definite and four months indefinite in an Ontario Reformatory, dating from the date of sentence.

John Leo Martin and Jeanne Ayette

On November 6th, 1947, Raymond Cote, taxi driver, of Hearst Ontario, answered a call to the Windsor Hotel at Hearst, Ontario, and he was met by the above named persons. They wished to be driven to Kapuskasing. At Kapuskasing they visited a bootlegger. After leaving the bootlegger's house, the car was taken from the taxi driver by force and his feet and arms tied and he was placed in the rear seat. They drove east to Cochrane and from Cochrane south near Ramore, some 250 miles, where they stopped the car and took Cote from the rear seat into the bush some distance from the highway, where Miss Ayette hit him over the head with an electric iron and he was left unconscious.

On November 8th, 1947, Cote was found near the highway where he had crawled from the bush, by Kenneth Delves of Ramore, and immediately taken to hospital at Matheson. At Rouyn, Quebec, Martin and Miss Ayette were arrested in possession of the taxi cab owned by Cote.

On November 10th Martin and Miss Ayette were escorted from Rouyn, Quebec to Haileybury Jail by two members of our force, charged with robbery with violence.

On November 29th, 1947, John Leo Martin and Miss Ayette were committed for trial by higher court. (Case unfinished).

Emile Caskenette and Laurence Caskenette, Cornwall, Ontario

Emile Caskenette and brother Laurence Caskenette appeared in Magistrate's Court, Cornwall, Ontario, on October 10th, 1947, and having pleaded "guilty" to charges of robbery with violence, theft of car and reckless driving, received the following sentences.

Emile Caskenette:—Three years Kingston Penitentiary on the robbery charge.
One year concurrent at Kingston for theft of car.
Six months concurrent at Kingston for reckless driving.

Laurence Caskenette:—Two years less one day definite and six months indefinite in the Ontario Reformatory for robbery.
One year concurrent in Reformatory for theft of car.

The paticulars of the above case being as follows:

On September 13th, 1947, both the accused engaged the taxi of one Alfred Tearro, Cornwall, Ontario. They were driven towards Summerstown on King's Highway No. 2. Tearro was severely beaten by the accused and his car and money amounting to $306.00 was taken. The money was recovered from the accused men upon their arrest.

James McFarlane, Charles Morpaw and David Calford

About 11 p.m. on the night of November 29th, 1947, word was received at D.H.Q. from the Espanola Detachment stating a taxi-driver from Sault Ste. Marie had picked up three men from Sault Ste. Marie to be taken to Bruce Mines, and that while enroute East, he had been hit over the head with some object and then $75.00 had been taken from his purse. He further stated that he had been forced into the rear seat of his car, and that one of the young men had taken over the driving of the car until it took the ditch, and that after this had happened, the three men concerned had taken their luggage and had started hitch-hiking down the Highway.

On receipt of the above information word was sent to the Blind River detachment, also with advice to both City and Inco police departments here, and a detail of officers from this D.H.Q. patrolled the Highway west. Provincial constables were successful in effecting the arrest of James McFarlane, Charles Morpaw and David Calford at Webbwood, Ont.

These men were taken back to Sault Ste. Marie for trial, as it was learned that the Assault and Robbery of Lorenzi had taken place at Garden River, which is situated near Sault Ste. Marie, Ont.

These men appeared before Magistrate James McEwen at Sault Ste. Marie on December 8th, 1947 and after pleading "Guilty" as charged, were remanded to await sentence.

Theft of Farm Tractors

On October 8th, 1947, one Russell Poisant was brought before Magistrate P. Bergeron for sentence on two charges of Theft of Farm Tractors, and one charge of Theft of Car, he having pleaded "Guilty" before the Magistrate on September 29th, 1947.

Poisant was sentenced to two years in Kingston Penitentiary on each charge, sentences to run concurrent. Particulars of the above crimes are as follows:—

During the night of September 2nd, 1947, a Fordson Tractor was stolen from the barn of Angus Bathurst, Dalhousie Mills, Ontario. That same night a second tractor was stolen from the farm of Jerome Lalonde, Glen Robertson, Ontario. On receipt of these complaints an investigation was conducted by the Cornwall detachment officers resulting in the recovery of the first tractor destroyed by fire and abandoned about one mile from the Bathurst Farm, in the Province of Quebec. No trace at that time could be found of the second machine.

The investigation was pursued diligently, the tractor being finally recovered at the farm of Amable Archambault, St. Antoine, Quebec, where it had been sold for $1,000.00 it having passed through several hands before being sold to Archambault. This investigation was continued with the assistance of the Quebec Provincial Police with the result that Russell Poisant was arrested, charged and sentenced as above.

HIGHGRADING

Joseph Chabot, Central Patricia, Ontario

The Provincial Constable at Central Patricia Detachment became suspicious of one Joseph Chabot, who had been employed by the Pickle Crow Gold Mines for a period of nine years. This officer's suspicions were largely due to the fact that Chabot and his wife appeared to be in a better condition financially that his mine wages would permit. The Constable's suspicions were made known to the mine officials, intimating that Chabot may be involved in highgrading, but the mine officials firmly believed that this employee could not become involved in any such illegal racket.

On May 26th, 1947, when Joseph Chabot and his wife, Emily, left Central Patricia by plane for Sioux Lookout on their summer holidays, the Corporal in charge of Sioux Lookout detachment was advised to search these people for highgrade ore.

Concealed on the person of Mrs. Chabot were found two gold buttons, weighing 2 lbs. 13 oz. This gold was assayed and found to be 71% pure, and valued at $964.44. It may be added that Mrs. Chabot was only searched after a search of Joseph Chabot and all their personal luggage proved to be fruitless.

Joseph Chabot and his wife were charged, but the charge against Mrs. Chabot was withdrawn and her husband pleaded "guilty" to the charge before Magistrate T. H. Wolfe at Sioux Lookout on May 28th, 1947. On June 14th, 1947, Chabot appeared before Magistrate T. H. Wolfe at Kenora and was sentenced to a term of two years less one day definite and three months indefinite in an Ontario Reformatory.

Siddon, John, Red Lake, District of Patricia

On March 8th, 1947 while our officers were conducting a search for liquor in the bunk house room at the Hasaga Gold Mines, Red Lake, occupied by John Siddon, they discovered thirteen small pieces of highgrade gold ore. As a result, Siddon was charged, found guilty and was sentenced by Magistrate T. H. Wolfe in Kenora Police Court on April 2nd 1947, to a term of one year definite and three months indefinite. Siddon was found to have a lengthy police record, including three penitentiary terms for various offences. It may be added that during the aforementioned search, 22 gallons of alcohol were found in Siddon's room.

He was prosecuted by the R.C.M.P. and fined $500.00 and costs or six months.

Kotz, Steven, Red Lake, Ontario

On December 20th, 1946, the above named man was arrested at Red Lake and charged with possession of a quantity of highgrade gold ore.

On January 13th, 1947, Kotz appeared in Kenora Police Court where he was found guilty and sentenced to nine months definite and three months indeterminate.

Petras, Alexander, Thunder Bay District

On receipt of a complaint from the Manager of Hardrock Gold Mines, to the effect that a rich pocket of gold ore had been uncovered, and there was every reason to believe that some of the ore was being stolen. The Provincial Constable at Geraldton Detachment made an investigation whichh led to Alexander Petras, and on an investigation of his room being made, gold ore was found, which the accused admitted as being stolen by him.

On March 10th, 1947, Petras was taken before Magistrate W. H. Russell at Port Arthur, where he pleaded "Guilty" and on March 18th, 1947 was sentenced to serve a term of six months definite and three months indefinite in an Ontario Reformatory.

ANTI-GAMBLING BRANCH

The personnel of this Branch were actively engaged in suppressing disorderly houses, and convictions were registered against persons as keepers of Common, Bawdy, Betting and Gaming houses in the following municipalities: Belleville, Brampton, Brantford Township, Coldwater, Cornwall, Dundas, Dunnville, East York Township, Etobicoke Township Fort Erie, Galt, Gloucester Township, Grimsby, Hagersville, Hamilton, Hespeler, Humphrey Township, Kingsville, Kitchener, Leaside Lobo Township London Township, Maidstone Township, Mildmay, Milton, Newmarket, New Toronto, North Bay, North York Township, Norwich Township, Oakville, Oshawa, Otterville, Palmerston, Pickering, Preston, Riverside, St. Mary's, Saltfleet Township, Sault Ste. Marie, Stratford, Sturgeon Falls, Tay Township, Thamesville, Thorold Township, Toronto, Vaughan Township, West Flambro Township, Whitby, Woodstock, and York Township.

Apart from the number of complaints and information received regarding the operation of disorderly houses at various locations in the Province which received attention, I am pleased to report that there has been a marked increase in the co-operation of Chief Constables, together with officers under their command of the various Municipalities, and this Branch.

During the month of January, 1947, evidence was obtained at fourteen premises in the City of Hamilton of "Free Play" slot machines of various types found to be used as gaming devices. As a result, fourteen persons were prosecuted and convicted for keeping "A Common Gaming House." Fines in the amount of fifteen hundred dollars ($1,500.00) and costs were imposed as sentences, and the machines seized were confiscated and destroyed.

During the month of March, 1947, evidence was obtained at thirteen premises in the City of Sault Ste. Marie of "Free Play" slot machines of various types, found to be used as gaming devices. Also, in addition, at one of these premises a 'rake-off' was being taken in a poker game. As a result, fourteen persons were prosecuted and convicted of keeping "A Common Gaming House." Fines in the amount of $2,625.00 including costs were imposed as sentences and the machines seized were confiscated and destroyed.

During the month of July, 1947, as a result of a return trip from the Town of Kingsville, Ontario, to Sandusky, Ohio, U.S.A., evidence was obtained by officers of this Branch, aboard the S.S. "Pelee" in Canadian waters, of twelve cash slot machines being used as gaming devices, and a breach of Regulation 19, the Liquor License Act. As a result, the Captain was prosecuted and convicted under Section 234(3) C.C.—being "The Master in Charge of any steamboat neglects to arrest and charge persons who were gambling therein", and was fined $100.00 and costs. The Purser of the S.S. "Pelee" was prosecuted and fined $200.00 including costs and one month in gaol. The twelve machines seized were confiscated and destroyed.

The Pelee Shipping Company was prosecuted for a breach of Regulation 19, Liquor License Act, a conviction being registered and a fine of $1,000.00 and costs imposed and the liquor seized was confiscated.

During the period—May 17th to September 23rd, 1947, special attention was given to travelling shows throughout the Province as Carnivals, etc. with the result that the following were prosecuted:—

Wallace Bros. Shows, Burling St. E.. Hamilton	Convictions—	2
Bernard and Barry Shows, Woodstock	"	4
Bernard and Barry Shows, Scott Park, Hamilton	"	2
Bernard and Barry Shows, Riverdale Park, Toronto	"	4
Milne Shows, Dundas, Ontario	"	4
Conklin Shows, Forbes Park, Hespeler	"	4
Grays Shows, North Bay	"	2
,Grays Shows, Sturgeon Falls	"	2
Queen City Shows, Ferris Park, Dist. of Nipissing	"	2
Queen City Shows, Belleville	"	2

SUMMARY: Convictions 28. Total Amount of Fines $2,230.00. Monies Forfeited, $832.59. Imprisonment, 3 persons for a total of one month and twelve days, and all gaming paraphernalia seized was confiscated and destroyed.

Following these convictions, the Chairman and Administrator of the Circuses and Travelling Shows Act, advised the Manager of the show concerned that under Section 4 of the Act, if further convictions were registered against the Concessionaires, their license would be cancelled indefinitely. During the latter part of the show season, this action brought about a marked change in the operation and conduct of these shows.

Bank crap games were found to be operating in the following Municipalities: Etobicoke Township, London Township, North York Township and Saltfleet Township. Eight persons were convicted as keepers—"A Common Gaming House," and fines imposed in the amount of $975.00, and in addition one person sentenced to a term of three months in gaol. Ninety-six persons were convicted as "Found Ins," contrary to the provisions of Section 228, Criminal Code, and fined a total of $1,950.00.

Officers of this Branch were on duty during the period July 4th to July 31st, 1947, at the race meetings held at Fort Erie, Ontario.

Niagara Racing Association—14 days; $2,703,332.00 was wagered through the pari-mutual machines, being an increase of $18,759.00 over the corresponding meeting held during the year 1946.

Ascot Turf Club—10 days; $1,907,730.00 was wagered through the pari-mutuel machines.

The two meetings held at Fort Erie were the only ones in the Ontario Racing circuit which reported an increase in wagering through the pari-mutuel machines over the previous year, 1946.

There were twenty-one telephones seized and removed from premises used in connection with the operation of keeping "Common Betting House." At the conclusion of the prosecution, the telephone equipment was returned to the office of the Bell Telephone Company of Canada. Many of these telephones were later returned to the premises owing to the ruling of the Board of Transport Commissioners, Ottawa, that the Bell Telephone Company of Canada was obliged to supply services to a subscriber if and when the service was available, upon condition of signing a contract with the company to the effect that such telephone service could not be used for an unlawful purpose.

Twenty-three "Cash Slot Machines," either "Free Play" slot machines, Eighteen Combination Pin Ball and Race Horse machines, Eight "Imp" slot machines and one slot machine under the provisions of the Slot Machine Act, 1944, were seized during the year for a total of 60. These machines were found to have been used as gaming devices and were ordered by the presiding Magistrate confiscated and to be destroyed and monies found therein forfeited.

Four hundred and seventy-seven investigations were carried out during the year. One hundred and thirty-one Orders to Search, and thirteen Search Warrants were executed. Two summonses were served and one hundred and fifty seven persons were arrested without warrant. Fines in the amount of $17,965.00—seventeen thousand, nine hundred and sixty-five dollars were imposed as sentences and collected and in addition, seventeen persons were sentenced to gaol for a total period of four years, four months and twelve days.

The sum of $1,123.74 was removed from gaming devices,—$947.24 was seized in gaming houses, $281.97 was seized in betting houses for a total of $2,352.95, which was ordered forfeited by the presiding Magistrate as provided for in Section 641(3) of the Criminal Code, as amended 11 Geo. VI, Chapter 55-19, and disposed of in accordance with the provisions of Section 1036 of the Criminal Code.

The sum of $283.67, monies expended by Officers of this Branch in connection with obtaining evidence was recovered from Magistrates' Courts throughout the Province and forwarded to the Accountant, Ontario Provincial Police.

A classification of Prosecutions, Convictions, Dismissals, etc. covering the period from January 1st, to December 31st, 1947, is as follows:—

OFFENCES	Prosecutions	Convictions	Dismissals	Withdrawals	Fines Imposed and Collected
Keeper Common Bawdy House, Sect. 229 C.C.	2	2	....	....	
Keeper, Common Gaming House, Sect. 229 C.C.	83	80	3	....	$8,785.00
Master in charge of Steamboat neglects to arrest and charge persons gambling. Sect. 234(3) C.C.	1	1	....	....	100.00
Keeper Common Betting House, Sect. 229 C.C.	33	30	3	....	3,975.00
Permitting Premises to be used for the purposes of a Disorderly House, and Recording and Registering Bets Section 228(2) and 235(a) C.C.	5	5	.	....	225.00
Engage in the business or occupation of Betting or Wagering, Sect. 235(e) C.C.	4	4	.	....	550.00
Betting Houses, Sect. 228 C.C.	115	107	8	....	2,170.00
Inmate, Common Bawdy House, Sect. 229(4) C.C.	5	5	...	....	
Stake or Hazard Monies on Gaming Devices Sect. 236(e) C.C.	3	3	. .	....	335.00
TOTALS	251	237	14	....	$16,140.00

Operation of Bawdy Houses, Township of Thorold South, Welland County

As a result of many complaints being received with effect that certain lawless conditions were being permitted to exist without police interference in the Township of Thorold South, instructions were issued by the Attorney-General's Department that a clean up was to be made by members of this Force.

The assignment was given to the Anti-Gambling Branch, who proceeded to place the premises complained of under observation. After two weeks a compilation was made of hours of observation, the number of motor vehicles, and the number of men and women entering and leaving the premises.

On November 1st, 1947, a raid was made on the premises of George Predy, Lot 137, Township of Thorold, County of Welland, when Predy was arrested on a charge of keeping a "Common Bawdy House." Four persons, three girls and one man were charged with being inmates of a "Bawdy House."

On November 1st, 1947, a raid was made on the premises of William Ciampi, Lot 178, Township of Thorold, County of Welland. In this case Ciampi was acting as a lookout and when apprehended by the officers he put up a struggle in which he dropped a loaded revolver. He was charged with being the keeper of a "Common Bawdy House," with "Being in possession of a Firearm," contrary to the provisions of the Criminal Code, also with a number of offences under the Liquor Control Act. Three girls were charged with being inmates of a "Bawdy House."

When the accused appeared before the Magistrate, the following sentences were imposed.

George Predy was convicted on all charges and sentenced to five months in gaol. The "found-ins" were all convicted and sentenced to various terms of imprisonment.

William Ciampi was convicted on all charges and sentenced to five months in gaol, in addition to paying fines and costs, on Liquor Law Violation charges. Two "inmates" were found guilty and sentenced to one year and two months respectively.

In connection with these occurrences, the following public remarks by the Deputy Reeve of the Township, are of interest:—

"There has been ample evidence in the past that the police administration of this Township was far from satisfactory. The recent convictions of violators of the law doubly emphasize this fact, as these convictions were obtained by the police force other than our own.

These convictions made it more than ever apparent that our township Police Department is neither efficient nor conscious of the principles of good law enforcement. If it were, this Township would not be receiving the notoriety it does through the press of this entire province in respect to bawdy houses operating on a large scale.

Mr. Reeve, in the cause of common decency we will no longer allow these vile conditions to exist. Neither will we permit our children and young folk to be further exposed to such a crime infested atmosphere, and nor will we tolerate the continuance of conditions which result in aspersions being cast on the name of this Township as a whole.

All of these conditions must be eliminated and they can be through a change in the local administration of justice."

Since the above was written, a contract has been entered into between the Township and this Force for the policing of the Township by the Ontario Provincial Police.

HIGHWAY TRAFFIC ACT

Statistical information as supplied by the Registrar of Motor Vehicles, with comparative statements of the number of Vehicle Permits and Operators' Licenses issued for the years, 1947 and 1946 respectively:

	1947	1946
Passenger Cars	645,252	585,604
Commercials	137,989	117,217
Buses	2,940	.....
Two Purpose	1,294	1,303
Trailers	65,714	61,114
Motorcycles	9,471	6,982
Dealers "M"	1,384	1,045
Operators	707,681	683,105
Motorcycle Operators	1,308	845
Chauffeurs	435,302	403,495
Instruction Permits	127,114	109,130
In Transits	15,229	11,707
Transfers	207,676	145,463

There is greater need than ever for intensified action, on the part of Police Departments as proven by our records for the current year compared with the corresponding period of 1946. You will note a very considerable increase both in the number of accidents and fatalities that has been recorded, there being an increase of 3,961 over the figures recorded for 1946—an all time high.

ACCIDENTS RECORDED: 1947

Month	Total	Fatal	Number Killed	Number Injured
January	523	10	15	213
February	601	11	12	275
March	701	16	18	364
April	500	22	25	318
May	713	25	32	481
June	970	43	48	585
July	1,173	28	33	752
August	1,321	47	51	800
September	1,222	51	60	677
October	1,199	60	64	641
November	1,441	41	42	727
December	1,084	19	27	400
TOTALS	11,448	373	427	6,233
1946 TOTALS	7,487	357	409	5,369
Increase	3,961	16	18	864

As a part of the campaign for traffic safety a patrol car fully equipped with Radio and First Aid equipment, was on display (in charge of a Patrol Sergeant) during the period of the Canadian National Exhibition at Toronto, August 22nd to September 6th, 1947.

Short talks on traffic safety problems and general police activities were given by the Sergant in charge, which were received with great interest.

In addition to being a source of information regarding traffic control from its many angles, the Sergeant in charge was a "Bureau of Information" on many things concerning the Province, and was sought out by visitors from may parts of the world including South Africa, Australia, Mexico, Cuba and Haiti, to whom he was able to give much useful information concerning the Province generally.

The practice of having uniformed members of the Highway Patrol visit rural schools to address the pupils in an endeavour to elicit their co-operation in taking necessary safety measures whilst proceeding to and from school, has been continued with a degree of success. It is felt that by this procedure, the education of the children in safety measures reached into the home as well.

Members of the Highway Patrol have also addressed many Service clubs on matters concerning traffic control and supervision.

Two events during the year tested the personnel engaged in traffic control and supervision to the limit and I am pleased to report that the patrol officers rose to the occasion as required.

The events referred to were:—

THE MARION CONGRESS held in Ottawa and surrounding district from June 17th to 22nd, 1947, where it is estimated that upwards of two hundred thousand visitors attended, the majority by motor transport and the INTERNATIONAL PLOWING MATCH which was held October 14th to 18th, 1947, in the County of Frontenac near Kingston. This, the chief Agricultural event held yearly in the Province of Ontario, was reported to be one of the most successful yet held.

During the period the match was in progress over twenty-seven thousand automobiles were parked on the grounds, with over one hundred thousand visitors and contestants in attendance. Not one serious accident was reported during the four days of the exhibition. A splendid record on the part of all concerned.

PROSECUTIONS FOR TRAFFIC OFFENCES UNDER H.T.A. AND CRIMINAL CODE

For the period January 1st to December 31st, 1947

Offences	Prosecutions	Convictions	Dismissals	Withdrawals
Speeding	1,847	1,810	22	15
Defective Lights	1,271	1,246	8	17
Careless Driving	2,846	2,201	458	187
Crowding Front Seats	43	38	3	2
No Permit (Drivers, Operators etc.)	1,020	963	18	39
Driving Under Sixteen	4	4	......	......
Failing to Stop at Through Street	1,202	1,126	22	54
Improper Left Turn	106	96	9	1
Overloading	839	821	5	13
Defective Brakes	427	403	12	12
Failure to Remain at Accident	117	86	27	4
Parking on Highway	361	327	23	11
Rules of RoadBreach of	877	801	62	14
Failure to Notify Purchase	66	60	6	..
Failure to Notify Change of Address	51	47	2	2
Bicycles, Lights, Bells etc.	84	82	1	1
Public Commercial Vehicle Act	76	50	24	2
Chauffeurs—No License	71	67	2	1
Owner's Name Not on Vehicle	56	55	......	1
Reflector	7	6	......	1
Failure to Report Accident	126	105	8	13
Failure to Produce Permit or License	169	159	5	5
Markers, Dirty	43	42	....	1
Miscellaneous	651	602	34	15
Failure to Expose License Plates	30	30	......	......
Trailer Hook-up	7	7	......	......
No Markers	56	55	1	......
Totals	12,451	11,287	752	412

CRIMINAL CODE — SECTION 285

Offences Concerning Motor Vehicles

Offences	Prosecutions	Convictions	Dismissals	Withdrawn
Driving While Intoxicated	459	346	91	22
Hit and Run Drivers	48	39	6	3
Taking Car Without Owner's Consent	98	78	12	8
Reckless or Dangerous Driving	597	348	175	74
Driving While License Suspended	84	63	21	. ...
Leaving Scene of Accident	72	58	10	4
Totals	1,358	932	315	111

THE LIQUOR CONTROL ACT

There were 5,639 prosecutions by officers of the Ontario Provincial Police Force under the provisions of the Liquor Control Act of Ontario, throughout the Province of Ontario, for the period January 1st to December 31st, 1947 as follows: Prosecutions 5,639, Convictions 5,266, Dismissals 217, and Withdrawals 156, an increase of 866 prosecutions over the preceding year.

The fines imposed under the provisions of the Liquor Control Acts amounted to $91,185.50 being comprised as follows:

Offences	Prosecutions	Convictions	Dismissals	Withdrawals	Fines
Having in Illegal Place	1,611	1,536	52	23	$25,934.00
Unlawful Purchase	19	16	2	1	685.00
Selling-Keeping for Sale	124	73	30	21	2,725.00
Illegal Possession	313	268	26	19	18,950.00
Drinking in Public Place	436	408	7	21	3,795.00
Supplying to Minors	79	56	15	8	405.00
Illegal Use of Permits	58	40	14	4	2,645.00
Having or Consuming in Hotels	3	2	1	0	210.00
Intoxicated in Public Place	1,929	1,883	30	16	20,575.50
Permitting Drunkeness	16	10	5	1	565.00
Violation of Regulations 13, 15, 62, 64-(b), 125, 126, 132 and 173	534	512	16	6	6,350.00
Found-ins	107	99	3	5	1,195.00
Minors Applying for Permits	12	10	1	1	115.00
Miscellaneous	367	327	12	28	5,396.00
Liquor License Act	9	9	....	....	600.00
Canada Temperance Act Under the Liquor License Act	22	17	3	2	1,040.00
Totals	5,639	5,266	217	156	$91,185.50

Confiscated Liquor

The following spirits, wine and beer were seized and confiscated by the presiding Magistrates throughout the Province of Ontario, and turned over to the Liquor Control Board.

Spirits, 508.18 Gals; Beer, 6,270.82 Gals; Wine, 691.88 Gals. The approximate value amounted to $22,000.00.

Automobiles Confiscated

Under the provisions contained in the Liquor Control Act, the following automobiles were seized, confiscated and brought to Headquarters, Toronto, where they were sold by auction. These cars were being used illegally by bootleggers for transporting liquor:

Confiscated Cars:	Approximate Value
No. 511—Ford Coupe, 1934	$200.00
No. 512—Dodge Sedan, 1938	$500.00
Total	$700.00

Revenue derived from Enforcement of the Liquor Control Act of Ontario

Fines Collected	$91,185.50
Approximate Value of Liquor Seized	22,000.00
Approximate Value of Confiscated Automobiles	700.00
	$113,885.50

Disqualification of Premises

During the year 1947 125 Certificates restoring disqualified premises to private residences under Section 43(2) of the Liquor Control Act were granted; 15 applications for removal of the disqualification were refused.

Designation of Rooms as Private Residences in Hotels, Clubs and Tourist Camps

175 applications were received in 1947 from hotel proprietors, tourist camp operators and club managers for the privilege of having rooms designated in their premises as private living quarters. Six of these applicants were refused this permission.

Liquor Permits received for Cancellation

During the past year, 1,937 permits for liquor with reports on same, were received at this branch from officers of this Force. In each case where there were sufficient grounds to support a recommendation for the cancellation or a Prohibitory Board's Order being issued by the Liquor Control Board, the necessary action was taken in sending these reports to the Liquor Control Board with my recommendations. In practically every case the liquor privileges were cancelled or a Board's order was issued as the case may be.

Samples of Liquor for Analysis

There were 115 samples of liquor for analysis received from Provincial Police and Municipal Police Officers at different points throughout the Province of Ontario.

The work in connection with these samples plays a very important part in the proper enforcement of the Liquor Control Act. When the samples are received, a record of the Seal Numbers, date of seizure, by whom seized and other particulars are placed in a Record Book kept for this purpose, after which the samples in question are delivered to the Provincial Analyst to be analyzed. When the analysis is completed, a Certificate of Analysis is prepared by the Analyst under his signature, showing the strength by volume of absolute alcohol, and sworn to as a witness by the officer in charge of liquor for analysis. These Certificates are then mailed to the Police Officers from whom the samples of liquor for analysis were received, to be used as conclusive evidence in Police Courts as to the strength of the liquor seized, proving that the sample in question is intoxicating liquor within the meaning of liquor under the Liquor Control Act of Ontario.

Property Lost and Stolen

Number of Motor Vehicles Stolen	480
Number of Motor Vehicles Recovered	449
Number of Bicycles Stolen	214
Number of Bicycles Recovered	182
Value of Other Property Lost or Stolen	$478,730.00
Value of Other Property Recovered	$453,231.00

RETURN OF CRIMINAL PROSECUTIONS

Offence	Convictions	Dismissals	Withdrawals	Total
Abandon Child	3	......	......	3
Abduction	5	......	2	7
Abortion	......	......	......	......
Affray	50	4	......	54
Arson	7	1	......	8
Assault—Aggravated	24	5	2	31
Assault—Bodily Harm	230	176	45	451
Assault—Common	292	94	51	437
Assault—Female	23	5	5	33
Assault—Indecent	74	28	12	114
Assault—Intent to Rob	2	1	......	3
Assault—Police Officer	8	1	......	9
Attempted Arson	3	......	......	3
Attempted Breaking and Entering	18	......	......	18
Attempted Breaking Gaol	1	......	......	1
Attempted Carnal Knowledge	......	1	......	1
Attempted Murder	1	1	......	2
Attempted Rape	3	1	1	5
Attempted Suicide	13	2	4	19

RETURN OF CRIMINAL PROSECUTIONS—Continued

Offence	Convictions	Dismissals	Withdrawals	Total
Attempted Theft	21	11	3	35
Bigamy	5	2	1	8
Breaking and Entering	108	20	18	146
Breaking and Entering and Theft	32	5	......	37
Breaking Gaol	......	......	.....	......
Breach of Recognizance	5	2	1	8
Buggery	4	......	......	4
Burglary	25	4	3	32
Bawdy House Keeper	11	3	......	14
Bawdy House 'Found In'	11	5	3	19
Carnal Knowledge	19	16	5	30
Concealment of Birth	2	......	......	2
Conspiracy	2	......	1	3
Corrupting Children	2	......	......	2
Contempt of Court	1	......	......	1
Conversion	1	......	......	1
Criminal Negligence	1	3	1	5
Cruelty to Animals	38	15	1	54
Damage to Property	108	17	11	136
Damage—Wilful	120	12	16	148
Disorderly Conduct	187	15	12	214
Disturbance	6	1	......	7
Escaping Custody	19	......	1	20
False Pretences	141	14	15	170
Forgery	47	2	7	56
Fraud	26	4	5	35
GAMBLING				
Conducting Lottery	16	1	......	17
Gaming House—Keeper	84	3	4	91
Gaming House—Found In	116	8	2	126
Recording and Registering Bets	5	......	......	5
Keeping Common Betting House	35	3	......	38
Betting or Wagering	4	......	......	4
Gambling Devices—Conducting	9	3	......	12
Gross Indecency	7	2	3	12
High-grading	10	......	1	11
Housebreaking	237	23	6	266
Incest	12	2	1	15
Incorrigible (Juvenile Delinquency)	14	5	......	19
Indecent Acts	54	7	1	62
Impersonating Police Officer	1	......	......	1
Intimidation	9	1	......	10
Nuisance	18	4	3	25
Manslaughter	9	16	1	26
Military, Wearing Medals, Uniforms	1	......	......	1
Miscellaneous Offences	72	11	17	100
Mischief	55	19	1	75
Murder	9	8	1	18
Non Support, Children, Wife	33	14	12	59
Obstructing Police	41	8	8	57
Obscene Literature	1	......	......	1
Perjury	5	4	......	9
Procuring	1	......	......	1
Rape	6	3	4	13
Robbery—Armed	16	1	......	17
Robbery and Extortion	17	5	1	23
Robbery with Violence	23	11	2	36
Seduction		......	1	1
Shooting with Intent	1	1	......	2
Shopbreaking	245	22	11	278
Stolen Property—In Possession of	18	4	4	26
Stolen Property—Receiving or Retaining	81	36	11	128
Theft	981	196	69	1,246
Theft of Poultry	24	......	......	24
Theft of Automobiles	97	13	6	116

RETURN OF CRIMINAL PROSECUTIONS—Continued

Offence	Convictions	Dismissals	Withdrawals	Total
TRAFFIC OFFENCES				
Driving While Intoxicated	346	91	22	459
Hit and Run Drivers	39	6	3	48
Taking Car Without Owner's Consent	78	12	8	98
Reckless or Dangerous Driving	348	175	74	597
Driving Whilst License Suspended	63	21	......	84
Leaving Scene of Accident	58	10	4	72
Trespassing	......	7	......	7
Threatening	32	8	9	49
Uttering	30	1	3	34
Vagrancy	494	51	101	646
Weapons—Offensive	108	11	4	123
Weapons—Carrying Concealed	9	......	......	9
Wounding with Intent	12	4	1	17
Totals	5,678	1,292	625	7,595

REVISED STATUTES OF ONTARIO

Offence	Convictions	Dismissals	Withdrawals	Total
Children Maintenance Act	4	......	......	4
Children Protection Act	3	......	1	4
Deserted Wives Act	27	5	9	41
Forest Fire Prevention Act	32	2	1	35
Game and Fisheries Act	30	4	4	38
Highway Improvement Act	13	2	......	15
Master and Servant Act	12	1	7	20
Mental Hospitals Act	105	29	11	145
Mining Act	4	......	......	4
Miscellaneous Provincial Statutes	67	2	3	72
Public Health Act	1	......	......	1
School Training Act	22	2	......	24
Venereal Disease Act	2	......	......	2
Cemetery Act	1	......	......	1
Totals	323	47	36	406

REVISED STATUTES OF CANADA

Offence	Convictions	Dismissals	Withdrawals	Total
Indian Act	47	......	......	47
Radio Act	111	3	......	114
Juvenile Delinquent Act	146	5	3	154
Lord's Day Act	8	1	1	10
Railway Act	6		......	6
Totals	318	9	4	331

WARTIME REGULATIONS

Offence	Convictions	Dismissals	Withdrawals	Total
Breach W.T.P. & T.B. Regulations	9	......	1	10
Totals	9	......	1	10

GRAND TOTALS

Offence	Convictions	Dismissals	Withdrawals	Total
Criminal Code	5,678	1,292	625	7,595
Revised Statutes of Ontario	323	47	36	406
Revised Statutes of Canada	318	9	4	331
Wartime Regulations	9		1	10
1947 Total	6,328	1,348	666	8,342
1946 Total	5,702	1,077	677	7,456

CLASSIFIED RETURN OF PROSECUTIONS, CONVICTIONS, DISMISSALS, AND WITHDRAWALS

JANUARY 1st to DECEMBER 31st, 1947

Offence	Prosecutions	Convictions	Dismissals	Withdrawals
Criminal Code and Other Statutes	8,332	6,319	1,348	665
Highway Traffic Act	12,451	11,287	752	412
Liquor Control Act	5,630	5,257	217	156
Wartime Regulations	10	9	......	1
Liquor License Act	9	9	......	......
1947 Total	26,432	22,881	2,317	1,234
1946 Total	20,696	17,918	1,674	1,104

SEARCH WARRANTS EXECUTED

	1947	1946
Criminal Code	861	1,101
Highway Traffic Act	3	22
Liquor Control Act	937	1,200
Number of Arrests for Other Forces	751	434
Summonses Served for Other Forces	2,485	1,177

ARRESTED WITH OR WITHOUT WARRANT

Arrested With Warrant Under Criminal Code, Highway Traffic Act and Other Statutes	1,304
Arrested With Warrant Under Liquor Control Act	61
Arrested Without Warrant Under Criminal Code, Highway Traffic Act, and Other Statutes	2,835
Arrested Without Warrant Under Liquor Control Act	2,750
Summoned, etc.	19,482
1947 Total	26,432
1946 Total	20,696

NATIONALITIES

Canadians	22,172
English	219
Indian	416
Irish	75
Italians	65
Jewish	63
Polish	168
Russian	109
U.S. Citizens	454
Other Nationalities	1,842
Companies	849
1947 Total	26,432
1946 Total	20,696

MARITAL STATUS

Married	11,455
Single	13,952
Widows	40
Widowers	136
Companies	849
1947 Total	26,432
1946 Total	20,696

SEX

Males	24,681
Females	902
Companies	849
1947 Total	26,432
1946 Total	20,696

CLASSIFICATION OF AGES

Ages 10—15 years	476
16—20 "	4,394
21—30 "	8,798
31—40 "	5,082
41—50 "	4,179
51—60 "	1,776
61—70 "	598
Over 70 years	280
Companies	849
1947 Total	26,432
1946 Total	20,696

CONCLUSION

In conclusion I desire to express my sincere appreciation for the counsel and advice received at all times from the Deputy Attorney-General and Solicitors of your Department.

I also wish to thank the Press and Radio Officials, Municipal, Railway and Royal Canadian Mounted Police Forces for their ever-ready assistance and co-operation throughout the year.

I further desire to assure you on behalf of the Force of which I have the honour to be the head that the same constant vigilance and devotion to duty will be maintained in the future as it has been in the past.

Respectfully submitted,

WILLIAM H. STRINGER,

Commissioner of Police for Ontario.

REPORT

OF THE

Civil Service Commissioner

Province of Ontario

FOR THE YEAR ENDING MARCH 31st, 1947

Printed by Order of
The Legislative Assembly of Ontario
(Sessional Paper #37)

ONTARIO

TORONTO
Printed and Published by Baptist Johnston, Printer to
The King's Most Excellent Majesty.
1948

TO HIS HONOUR, THE LIEUTENANT-GOVERNOR,

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present to Your Honour the Thirtieth Annual Report of the Civil Service Commissioner for Ontario.

Respectfully submitted,

D. R. MICHENER,
Provincial Secretary.

Toronto, March 1, 1948.

Honourable D. R. Michener, M.A., B.C.L., K.C.,

Provincial Secretary.

Sir,

In conformity with the provisions of Section 21 of The Public Service Act, R.S.O. 1937, Chapter 15, I have the honour to submit herewith a report for the fiscal year ending March 31, 1947.

I have the honour to be, Sir,

Your obedient servant,

C. J. FOSTER,

Civil Service Commissioner.

THIRTIETH ANNUAL REPORT OF THE CIVIL SERVICE COMMISSIONER FOR ONTARIO

The year ending March 31, 1947, marked the close of a thirty year period of personnel administration in the provincial service. Prior to 1918, when the first Civil Service Commissioner was appointed, there had been no system for dealing in a uniform manner with the problems of appointment, transfer, promotion and salary revision in the various departments. Many civil servants were designated by titles which bore no relation to their duties, while the salaries paid for the same type of work differed greatly in each department.

It is of interest to note, however, that although the main problem thirty years ago was the erection of a sound classification system where none previously existed, the references to other problems in the first report might have been written to-day. "Conditions have been removed farther from the normal during this fiscal year than at any other time in the history of the province," it is noted. "This has been directly due to the effects of the war . . . throughout the year the cost of living kept moving upwards . . . the unsettled state of affairs generally has had a disturbing effect on the Public Service . . . considerable credit is due the employees of the Government who in the face of difficult conditions have carried on successfully the duties assigned to them."

The problems facing personnel officials during those two periods, however, were very much alike, differing mainly in degree. They concerned: (1) The re-establishment of employees who had seen service in World Wars I or II; (2) The recruitment of additional staff to meet the requirements of expanding provincial services which had been retarded by the demands of war; (3) The adjustment of salary levels to closer conformity with inflated living costs. Each of these problems called for separate and distinct action, although the revision of the compensation schedules was directly related to the recruitment of new staff and in part was influenced by that consideration.

Reinstatement of Veterans

Except for a few cases which required medical care, practically all veteran employees who had not previously returned to staff were reinstated during the year, although some of them were subsequently granted leave of absence to take rehabilitation courses which would fit them for more advanced positions.

A questionnaire which each veteran was requested to fill in on his return revealed that the great majority wished to return to their former department in the same line of work which they had left. The task of reintegrating these men proceeded with a minimum of difficulty and the co-operation of the deputy heads of departments and personnel officers was willingly extended. The Ontario Civil Servants' War Veterans' Association also gave welcome assistance in the few cases of maladjustment that occurred. More than 1200 Ontario civil servants enlisted and it is a matter for satisfaction that their return to the service was effected with instances of disappointment or friction almost negligible.

Recruitment

The recruitment of new staff to fill vacancies created by the war years and to meet the expanding peacetime functions of the various departments presented a fairly large problem. The competition of industry striving to meet consumer demand for articles which had been in short supply had to be met and it was also apparent that there would be definite shortages of trained personnel for various services, particularly in the mental hospitals and certain skilled trades and scientific fields.

In addition to the usual channels of recruitment from the universities, vocational and high schools, business colleges and the national employment service, considerable local and province-wide advertising for staff had to be done. In all, 2,289 new employees were inducted into the service. This compares with 1,969 in the previous year and 618 in the last pre-war year ending March 31, 1939. In further comparison with the year 1939 it may be noted that in that year certificates were issued in respect of 3,303 appointments, renewals, promotions and transfers. In the year under review the corresponding figure was 25,090.

More than 82% of the male appointments consisted of ex-service men.

Salary Revision

The third of the problems mentioned, that of salary revision and the amendment of the compensation schedules, had been anticipated in the year before the war ended and substantial progress had been made in revising the specifications and compensation scales for more than six hundred different classes. In the Fall of 1946 the Government decided that the time had arrived for the incorporation of the wartime bonuses into the compensation schedules. In conjunction with the revision of salaries this was an exacting and complicated procedure which involved consideration of every individual position in the service. This work was satisfactorily completed and the salary revision, which was effective on April 1, 1947, was based on the amended compensation schedules.

Personnel Programme

The recruitment and placing of new staff, the establishment of new departments, and the addition of new branches to existing departments, together with problems of transfer and promotion, and the need, for superannuation purposes, of exact information with regard to both certificated and uncertificated employees of the province was responsible for a greatly increased volume of detailed work in the office of the Commissioner.

The 1946 amendment of the Public Service Act which permitted employees to contribute to the Public Service Superannuation Fund in respect of periods of previous temporary employment affected several thousands of employees. The preparation of option forms, the calculation of arrears of assessment and interest, and the arrangement for payment of arrears from payrolls over varying periods of time was a major task which required additional staff. This work further emphasized the need in some departments for more centralized control of staff records and more supervision of personnel procedures generally. A considerable part of the time of the Commissioner's staff is spent in details of personnel administration which could be avoided if properly trained officials were in charge of this work within the departments. It would seem that perhaps one of the functions of the Commissioner's office should be the training of personnel assistants who could later be transferred to the departments. In the past the practice has usually been for a deputy head to assign personnel duties to a member of his staff who may be unfamiliar with personnel procedures and whose other responsibilities are his chief concern. In a small department this method of handling personnel may not cause too much difficulty but in departments with several hundreds of employees considerable difficulty can result .

The conclusion also cannot be escaped that in some departments a lack of properly trained personnel officers has been responsible for a certain laxity in applying the regulations of the service, particularly with respect to punctuality and attendance. It is a source of irritation to a great majority of conscientious and hard working staff if a fellow-employee is permitted habitually to disregard the regulations and escape penalty.

It is recommended that annually a short report on the efficiency of each employee should be prepared, on which recommendations for salary increases would, in part, be based. This report should list the number of times the employee was late or absent from duty and also the amount of overtime that he may have worked. These factors also should be considered when salary adjustments are made. When any employee is recommended for reclassification the department should also be prepared to submit a statement of the new duties to be performed. No attempt should be made to reclassify an employee merely for the purpose of placing him in a higher salary range without a corresponding increase in his duties and responsibilities in conformity with the specifications of the new class.

Staff Turnover

There was again a heavy turnover of staff during the year. This cannot be attributed to any one particular cause. Several factors probably entered into the situation. No fewer than 309 permanent employees resigned from their positions. The guarantee of secure employment with superannuation privileges has been a major factor in the past in retaining employees in the Civil Service even if they considered their salaries were somewhat lower than they could earn elsewhere. The fact that more than 300 employees chose to forgo security of tenure and superannuation privileges would seem to indicate that these considerations are not as potent as formerly. The reason, no doubt, is that more and more private employers and public agencies have established superannuation plans within their organizations. If, in addition, they can offer higher salaries they can attract civil servants, particularly in the lower age group. These facts should not be overlooked when salary levels in the Civil Service are being considered.

In addition, 489 temporary civil servants resigned during the year. Here again the reasons mentioned above may have influenced them. The majority of these employees, however, had only been in the service of the province for a short time. Some of them probably were affected by a spirit of post-war restlessness. Others decided that they were not fitted for the positions to which they had been appointed. The operation of a five-day week by an increasing number of employers, particularly in the Toronto area, may also have had its effect and probably increased the difficulty of recruitment for certain classes of employment.

Thirty-two employees died during the year and 40 others were superannuated, bringing the total separations from the service to 870.

Typists and Stenographers

Throughout the year there was a continued shortage of typists and stenographers and it was not possible to fill all the requirements of the departments or to fill them as promptly as could have been wished. Nevertheless no fewer than 241 new appointments were made in these classes. The experience of the year in testing applicants indicated that the shortage, especially in the Toronto area, of qualified applicants led many girls with insufficient training to apply for positions. Altogether 670 applicants were given stenographic or typing tests and many failed to meet the minimum requirements. Some of these applicants were advised to take more training, and 39 of them subsequently took repeat tests and in some cases passed successfully. In addition, 80 tests were given for promotional purposes to persons already on the staff. It was ascertained that in some departments qualified typists or stenographers were in some cases employed on work of a clerical nature and the departments were urged to place them at the work for which they were best qualified or to release them for transfer to another department.

Promotions and Transfers

The high rate of resignations which prevailed during the year provided an opportunity for more promotions than usual within the ranks of the service and 183 permanent employees were certificated to higher positions. The departments also co-operated readily in helping to meet their respective requirements by the transfer of staff from one branch or department to another. In all, 116 permanent employees were so transferred.

Temporary employees to the number of 740 were transferred to the permanent staff and to contributory status under the superannuation provisions of the Public Service Act. Authority for current deductions of superannuation assessment was issued in all cases. It was not possible in all cases to complete arrangements with each individual for the payment of arrears of superannuation assessment to cover the period of temporary service on account of the large amount of detailed work involved and the pressure of similar work in connection with other permanent employees which is referred to earlier in this report.

Joint Advisory Council

The Joint Advisory Council, which was established in 1944 to provide a common meeting ground where representatives of the Civil Service Association and designated officials could discuss the problems of the service, held six meetings during the year. The Council, under whose auspices a working committee had been formed to make recommendations for the reclassification of the entire service, received the final report of the Committee and with only minor amendments transmitted it for the approval of the Government. Later in the year the new schedules were approved by Order-in-Council. The members of the Committee were highly commended for the exacting care they gave to this intricate and difficult task.

One of the major discussions of the Joint Council concerned the possibility of placing the service on a working week of five days. The Council favoured this proposal, providing it could be effected by extending the daily hours of work to correspond with the time that would be lost, and providing also that there was no diminution in the service which the public has a right to expect. As most public institutions must be operated on a seven-day week basis, and others on a six-day basis, the problem is not an easy one, but the Council considered it was not impossible of solution and recommended it for the consideration of the Government.

The Council held one meeting which was attended by representatives of the Ontario Civil Servants' War Veterans' Association at which suggestions relating to conditions of employment of veterans were discussed.

Additions to Staff

Mr. J. S. Stephen, M.A., and Mr. Thomas Cowper, M.A., have recently been added to the staff. Mr. Stephen has specialized in Public Administration and Mr. Cowper in Personnel and Industrial Relations and their services are proving of value in meeting the greatly increased work of the office.

C. J. FOSTER

Civil Service Commissioner.

Summary of Certificates Issued

New Permanent

Department of Agriculture	8	
Department of the Attorney General	23	
Department of Education	16	
Department of Health	18	
Hospitals	2	
Department of Lands and Forests	12	
Department of Mines	2	
Department of Planning and Development	2	
Department of Provincial Secretary	2	
Department of Reform Institutions	3	
Gaols	1	
Institutions	2	
	——	91

Permanent Employees transferred from One Branch or Department to another

Department of Agriculture	5	
Department of the Attorney General	4	
Department of Education	9	
Department of Game and Fisheries	4	
Department of Health	4	
Hospitals	13	
Department of Highways	4	
Department of Labour	6	
Department of Lands and Forests	5	
Department of Mines	8	
Department of Municipal Affairs	1	
Department of Planning and Development	5	
Department of the Prime Minister	1	
Office of Provincial Auditor	3	
Department of Provincial Secretary	3	
Department of Reform Institutions	4	
Gaols	1	
Institutions	19	
Department of Travel and Publicity	10	
Department of The Treasurer	7	
	——	116

Permanent Employees promoted in position

Department of Agriculture	11
Department of the Attorney General	26
Department of Education	7
Department of Game and Fisheries	16
Department of Health	11
Hospitals	41
Department of Highways	5
Department of Labour	7
Department of Lands and Forests	6

Department of Legislation	1	
Department of Mines	3	
Department of Municipal Affairs	1	
Office of Provincial Auditor	2	
Department of Public Welfare	3	
Department of Public Works	1	
Department of Reform Institutions	3	
Gaols	3	
Institutions	20	
Department of Travel and Publicity	6	
Department of The Treasurer	10	
		183

Temporary Employees Transferred to Permanent Staff

Department of Agriculture	75	
Department of the Attorney General	66	
Department of Education	14	
Department of Game and Fisheries	4	
Department of Health	43	
Hospitals	211	
Department of Highways	6	
Department of Labour	39	
Department of Lands and Forests	12	
Department of Mines	14	
Department of Municipal Affairs	41	
Department of Planning and Development	13	
Department of the Prime Minister	2	
Office of Provincial Auditor	1	
Department of Provincial Secretary	18	
Department of Public Welfare	30	
Department of Public Works	6	
Department of Reform Institutions	9	
Gaols	2	
Institutions	91	
Department of the Treasurer	43	
		740

New Temporary

Department of Agriculture	149
Department of the Attorney General	85
Department of Education	80
Department of Game and Fisheries	30
Department of Health	110
Hospitals	862
Department of Labour	26
Department of Lands and Forests	102
Department of Legislation	5
Department of Mines	21
Department of Municipal Affairs	44
Department of Planning and Development	21
Department of the Prime Minister	2
Office of Provincial Auditor	3
Department of Provincial Secretary	53

Department of Public Welfare	39	
Department of Public Works	40	
Department of Reform Institutions	10	
Gaols	36	
Institutions	377	
Department of Travel and Publicity	42	
Department of The Treasurer	61	
		2198

Total Certificated Transactions By Departments

Departments	*Permanent*	*Temporary*
Department of Agriculture	1080	732
Deparment of the Attorney General	1498	649
Department of Education	1001	534
Department of Game and Fisheries	165	287
Department of Health	739	531
Hospitals	3450	5612
Department of Highways	620	133
Department of Labour	200	105
Department of Lands and Forests	432	354
Department of Legislation	21	18
Office of Lieutenant-Governor	6	
Department of Mines	148	111
Department of Municipal Affairs	187	344
Department of Planning and Development	214	41
Department of the Prime Minister	19	13
Office of Provincial Auditor	69	18
Department of Provincial Secretary	210	213
Department of Public Welfare	313	461
Department of Public Works	93	390
Department of Reform Institutions	70	79
Gaols	84	256
Institutions	750	1564
Department of Travel and Publicity	26	79
Department of The Treasurer	846	325
	12,241	12,849
Grand Total	25,090	

Monthly Percentage of Veterans Employed in Ontario Public Service

Month	*Males*	*Veterans*	*Percentage of Veterans*
April	145	121	83.44
May	157	134	85.35
June	113	102	90.27
July	174	137	78.74
August	83	62	74.70
September	112	83	74.11
October	87	70	80.46
November	127	104	81.89
December	67	57	85.07
January	153	130	84.97
February	98	77	78.57
March	86	75	87.21
Total	1402	1152	82.17%

Ontario Research Commission

FINAL REPORT

JANUARY
1948

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 42, 1948

ONTARIO

TORONTO
Printed and Published by Baptist Johnston
Printer to the King's Most Excellent Majesty

TO THE HON. RAY LAWSON, O.B.E.,

Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present to your Honour the Final Report of the Ontario Research Commission.

Respectfully submitted,

D. R. MICHENER,
Provincial Secretary.

Department of the Provincial Secretary.
January 6th, 1948.

January 6th, 1948.

THE HONOURABLE D. R. MICHENER,
Provincial Secretary,
Province of Ontario,
Parliament Bldgs.,
Toronto, Ont.

Dear Mr. Michener:

It is my privilege to transmit herewith the Final Report of the Ontario Research Commission pursuant to Order-in-Council dated August 28th, 1945.

In presenting this report I should like to express the appreciation of the Commission for the assistance they have received in the conduct of their work from the many groups with which they have been associated. They have received whole-hearted support from the members of the various Dominion and Provincial Government departments, the staffs of the universities, individuals and companies in the industrial field, the Canadian Manufacturers' Association and technical groups in Canada, the United States and Great Britain.

I have the honour to be, sir,

Your obedient servant,

ROBT. C. WALLACE,
Chairman.

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TERMS OF REFERENCE

ONTARIO

EXECUTIVE COUNCIL OFFICE

Copy of an Order-in-Council approved by the Honourable, the Lieutenant-Governor, dated the 28th day of August, A.D. 1945.

Upon the recommendation of the Honourable the Prime Minister, the Committee of Council advise that pursuant to the provisions of The Public Inquiries Act, R.S.O. 1937, chapter 19,

Dr. R. C. Wallace
E. Holt Gurney
Dr. Sidney Smith
W. E. Phillips
Dr. R. K. Stratford
Dr. G. I. Christie[1]
H. M. Turner
Dean C. R. Young
Dr. T. H. Hogg
Dr. C. E. Burke, and
Dr. W. Sherwood Fox

be appointed commissioners to inquire into and report upon all matters concerned with scientific and industrial research as they affect the Province of Ontario and in particular to inquire into and report upon,

(a) any matter relating to the utilizing of scientific personnel and scientific facilities;

(b) any application or request to the Government of Ontario for financial support for any project within the field of industrial and scientific research;

(c) the co-ordination of the activities of existing and prospective research units which are supported in whole or in part by public funds; and

(d) the integration of research activities within the Province of Ontario with research activities outside the Province of Ontario.

The Committee further advise that Dr. R. C. Wallace be appointed chairman of the Commission and that Professor J. O. Wilhelm be appointed Secretary of the Commission.

And the Committee further advise that the said Commissioners shall have the power to summon any person and require him to give evidence on oath, and to produce such documents and things as the commissioners deem requisite for the full investigation of the matters into which they are appointed to examine, by subpoena signed by the chairman or by any one of the commissioners hereby appointed.

Certified,

C. F. Bulmer,
Clerk, Executive Council.

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[1] During a portion of the time Dr. G. I. Christie was unable to attend the Commission meetings on account of illness. Mr. W. R. Reek, President of the Ontario Agricultural College, acted in his place.

ONTARIO

EXECUTIVE COUNCIL OFFICE

Copy of an Order-in-Council approved by The Honourable the Lieutenant-Governor, dated the 23rd day of July, A.D. 1946.

The Committee of Council have had under consideration the report of the Honourable the Provincial Secretary, dated July 18th, 1946, wherein he states that,—

WHEREAS, under the provisions of The Public Inquiries Act, a Commission under the Great Seal bearing date the twenty-eighth day of August, 1945, appointed Dr. R. C. Wallace et al to inquire into and report upon

(a) any matter relating to the utilizing of scientific personnel and scientific facilities;

(b) any application or request to the Government of Ontario for financial support for any project within the field of industrial and scientific research;

(c) the co-ordination of the activities of existing and prospective research units which are supported in whole or in part by public funds; and

(d) the integration of research activities within the Province of Ontario with research activities outside the Province of Ontario;

AND WHEREAS it is deemed expedient that E. T. STERNE of the City of Brantford should be associated in the said inquiry;

The Honourable the Provincial Secretary therefore recommends that, pursuant to the provisions of the said The Public Inquiries Act, the said E. T. STERNE be appointed a Commissioner for the purposes in the aforesaid Commission contained and recited to be associated for that purpose with the Commissioners therein named, fully and effectually giving and granting unto the said E. T. Sterne all and every the like powers given and granted by the said Commission to the said Commissioners as if the said E. T. Sterne had been appointed by the Commission aforesaid.

The Committee of Council concur in the recommendation of the Honourable the Provincial Secretary, and advise that the same be acted upon.

Certified,

C. F. BULMER,
Clerk, Executive Council.

ONTARIO RESEARCH COMMISSION

GENERAL STATEMENT

On December 4, 1946 the Ontario Research Commission submitted to the Provincial Secretary a report of progress[1]. Since this was purposely made a full and comprehensive statement of the field to be reviewed, of the problems discovered and of the Commission's treatment of these problems, it is possible to cast the Final Report, which is submitted herewith, in briefer and more summary form.

1. THE TASK

The task assigned to this Commission is set forth in the terms of reference of an Order-in-Council dated August 28, 1945. This is

> ". . . to inquire into and report upon all matters concerned with scientific and industrial research as they affect the Province of Ontario and in particular to inquire into and report upon,
>
> (a) any matter relating to the utilizing of scientific personnel and scientific facilities;
>
> (b) any application or request to the Government of Ontario for financial support for any project within the field of industrial and scientific research;
>
> (c) the co-ordination of the activities of existing and prospective research units which are supported in whole or in part by public funds; and
>
> (d) the integration of research activities within the Province of Ontario with research activities outside the Province of Ontario."

2. THE COMMISSION'S INTERPRETATION OF THE GOVERNMENT'S INSTRUCTIONS

The Commission conceives it to be its primary duty to convey to the Government its interpretations of the terms of reference just quoted by which the Commission has been guided.

Definition of Research

In order that the Government and the Commission may be sure that they are speaking about the same things, they must employ the same terms and definitions. One cannot do better than to adapt, with a few changes, to the situation in Ontario the classification and description of research under the headings of Pure or Fundamental Research, Background Research, and Applied or Practical Research, set forth in a report[2] recently published in Ottawa.

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[1] Interim Report, Sessional Paper No. 47, 1947.

[2] Research and Scientific Activity, Canadian Federal Expenditures—1938-1946, Page 11. See Appendix XII.

General Program

In the first place, the Commission understands that it does not lie within its province to consider the technical problems involved in the detailed planning and conduct of the research efforts encouraged by the Commission. The Commission is concerned, rather, to provide the Government with a program of research which is based upon the best scientific advice available in Canada or elsewhere, and to make certain that this program can be applied directly to the formulation and execution of Government policy. The Commission is also concerned **to recommend to the Government a plan of organization of research which is designed to ensure that the scope and balance of the program are such as will direct the application of scientific knowledge and effort into those fields which offer the brightest promise of yielding returns of permanent value to the Province, that the funds made available are adequate and proportionate to needs, and that such funds are used to the best advantage.**

The report which the Commission submits herewith is to be regarded as "final" only in the sense that it is the final report of this Commission as such. The entire experience of the Commission leads it to share fully, in reference to Ontario, the view recently expressed in Great Britain by a highly competent authority on research:[1] ". . . . It is too early to decide what the ideal Government organization for research should be. The organization for fostering scientific research must remain for many years in a state of active development." Consequently, it would be most harmful to the public interest to regard this report as ideal, since manifestly the suggested program will of necessity be subject to a process of evolution.

3. WHAT THE COMMISSION HAS ACCOMPLISHED

(a) **General Statement.** The experience of the Commission and what it has accomplished up to the present constitute a basis on which are built the recommendations the Commission submits in this report. The facts involved are set forth here at first in a general statement.

1. In the early months of its service the Commission succeeded in bringing together most of the leading workers in each field of scientific research in Ontario. This is the first time in the history of the Province that this result has been achieved.

2. Through the numerous conferences that ensued between the Commission and the scientific workers the Commission was able to initiate an active and practical system of co-ordination of effort in and among the several fields of research in the Province.

3. One result of these conferences was that they supplied the Commission with materials out of which the Commission constructed in a number of fields programs of research which were undertaken immediately: in some fields these programs consist of extension of investigations already under way and in others of entirely new endeavours. This work during the fiscal year '47-'48 will involve expenditures in the various research fields of approximately

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[1] Government Research and Development in Great Britain—Nature, Sept. 20, 1947, page 379: Sir Edward Appleton, British Commonwealth Scientific Conference, London, 1946, Report of Proceedings, Cmd. 6970, page 15.

APPENDIX IX.

AERIAL SURVEY

Committee:

Prof. K. B. Jackson (Chairman)	Applied Physics, University of Toronto
Mr. J. R. M. Austin	Austin Airways Limited.
Mr. J. M. Bishop	Ontario Dept. of Lands and Forests
Mr. J. A. Brodie	Ontario Dept. of Lands and Forests
Mr. L. J. Chapman	Ontario Research Foundation
Dr. W. Clark	Eastman Kodak Company
Dr. D. R. Derry	Ventures, Limited.
Mr. W. J. Fulton	Ontario Dept. of Highways
Mr. G. Godwin	The Ontario Paper Company, Limited
Dr. L. E. Howlett	Optics Section, National Research Council
Mr. M. E. Hurst	Ontario Dept. of Mines
Mr. R. N. Johnston	Ontario Dept. of Lands and Forests
Mr. D. N. Kendall	Photographic Survey Company, Limited
Mr. Tom C. McCall	Ontario Dept. of Travel and Publicity
Mr. C. R. Mills	Ontario Forest Industries Association
Prof. F. F. Morwick	Ontario Agricultural College
Prof. J. E. Reid	Electrical Engineering, University of Toronto
Mr. A. H. Richardson	Ontario Dept. of Planning and Development
Mr. J. R. G. Smyth	Ontario Dept. of Lands and Forests
Prof. W. M. Treadgold	Civil Engineering, University of Toronto
Prof. J. O. Wilhelm (ex officio)	Ontario Research Commission

Meetings:

April 22nd, 1947	Parliament Buildings, Toronto
January 5th, 1948	Engineering Building, University of Toronto

Sub-Committees:

Photography

Mr. J. R. M. Austin	Austin Airways Limited
Mr. J. M. Bishop	Ontario Dept. of Lands and Forests
Prof. K. B. Jackson	Applied Physics, University of Toronto
Mr. R. N. Johnston	Ontario Dept. of Lands and Forests
Mr. D. N. Kendall	Photographic Survey Company, Limited

Photogrammetry

Prof. K. B. Jackson	Applied Physics, University of Toronto
Mr. K. H. Siddall	Ontario Dept. of Highways
Prof. W. M. Treadgold	Civil Engineering, University of Toronto
Mr. J. G. Wilkenson	Photographic Survey Company, Limited

An informal conference on Aerial Survey was held on March 13th, 1947. As a result, a submission was made to the Ontario Research Commission on

April 8th recommending the establishment of an Advisory Committee on Aerial Survey, the Committee to include representatives of:

1. Government agencies which produce or use aerial photographs;
2. University departments concerned with the individual problems of aerial photography and the application of aerial photographs in their respective subject areas;
3. Photographic surveying companies;
4. Manufacturers of photographic materials, and of photo-survey equipment.

The general problem which was placed before the Committee involved:

1. **Photography:**
   - (a) Choice of photographic materials and processes to suit general or specific needs;
   - (b) Choice or design of suitable camera equipment;
   - (c) Application of navigational aids, camera stabilizers and automatic pilots;
   - (d) Determination of scale requirements for specific purposes.
2. **Photogrammetry:**
   - (a) Analysis of the dimensional stability of negative and positive materials;
   - (b) Analysis of present methods of Planimetric plotting and of transferring detail from photographs to base maps;
   - (c) Determination of cost and available accuracy in topographic mapping by approximate and rigorous methods;
   - (d) Development of new methods and equipment to most specific needs.

At its first meeting on April 22nd the Committee considered the program and divided the work among several sub-committees. These sub-committees worked out a series of projects to be conducted during the summer season of 1947. The preliminary reports on these projects are in the hands of the sub-committees and are being prepared for submission to the Main Committee.

AERIAL SURVEY RESEARCH—1948-49

Title	Participating Agencies	Budget
1. The Extension of the Work on Photographic Interpretation by J. R. G. Smyth and G. W. Rooney including: Variations in Scale, Filters, and Types of Terrain for Use in Forestry, Geology and Agriculture. (K. B. Jackson).	Photographic Survey Company; Dept. of Lands and Forests; Applied Physics, University of Toronto; Dept. of Mines; Eastman Kodak Company; The National Research Council.	$
2. An Investigation of the Relative Merits and Costs of Transparencies and Paper Prints for Detailed Interpretation of the Photographs. (K. B. Jackson).		
3. An Investigation of the Dimensional Stability of Positive Printing Materials when used for Mapping. (K. B. Jackson).		
4. A Survey of Present Practices in Sensitometric Control and Preparation of Recommendations for Standard Specifications. (K. B. Jackson).		$5,000.00

APPENDIX X.

SCHOLARSHIPS

Since the development and extension of research and, in consequence, of industrial progress in Ontario, is vitally dependent upon the availability of trained personnel, the Ontario Research Commission recognizes that the Province, the universities, the technical institutions, and the industries of the Province, individually and collectively, have significant roles to play in the training of persons who can give useful assistance in the research field.

The Commission is of the opinion that an important contribution to the carrying on of fundamental and applied research may be made by furthering the training of technicians in courses of the technical institute type extending over a period of one or two years at a level lying between that of the vocational high schools and that of the universities. The assistance of an adequate number of such persons would approximately double the effectiveness of the all too few fully qualified university graduate research workers.

The Commission desires to commend in general the longer and more advanced programs of educational training in industry as productive of persons valuable to research. It is to be hoped that industry may be able to extend this service.

The Commission realized that the need for trained personnel could not be met completely by the provision of scholarships. Nevertheless, to assist students with ability and as an adjunct to a complete program the provision of financial assistance to outstanding students plays a useful part.

As a result, during 1946-47 the Ontario Research Commission requested that $20,000 be made available to provide scholarships for research students. Through recommendations from the Advisory Committees, ten scholarships were granted for work to be done during the 1946-47 term.

During the present year the Government provided a sum of $50,000 for scholarships and $44,275 has been spent in supporting 58 scholarships. 27 have been granted of a value of $500, 25 of a value of $900, and 6 of a value of $1,200, and $1,075 has been granted to provide travelling expenses.

The distribution among subjects is as follows:

Physics	22
Chemistry	8
Metallurgy	5
Forest Entomology	5
Limnology	4
Biology	3
Zoology	3
Physiology	3
Other subjects	5

The students are working in these universities:

University of Toronto	35
Queen's University	7
McMaster University	5
University of Western Ontario	4
Ontario Agricultural College	2
Yale University	1
Ohio State University	1
University of Michigan	1
University of Cambridge	1
University of Amsterdam	1

As a continuing policy it would seem to be desirable that there be some annual amount appropriated each year to provide scholarships. The amount might be a definite proportion of the annual research budget, say 10%.

APPENDIX XI.

PROVINCIAL RESEARCH EXPENDITURES

Research expenditures within the Province for the year 1947 are given below.

CAPITAL EXPENDITURES—ESTIMATED 1947

Department	Branch	Research	Development	Analysis and Testing
Agriculture	Ontario Veterinary College	7,800.00	10,300.00	4,000.00
Agriculture	Horticultural Experiment Station	125,000.00	—	—
Agriculture	Ontario Agricultural College	15,500.00	4,700.00	2,050.00
Agriculture	Experimental Farm, Ridgetown	—	—	—
Lands and Forests	Fish and Wildlife	3,500.00	50,000.00	3,500.00
Lands and Forests	Forestry	3,700.00	15,000.00	3,000.00
Mines	Geology	—	—	—
Highways	Soils and Research	2,000.00	3,000.00	10,000.00
Health	Public Health	—	2,100.00	—
		$157,500.00	$85,100.00	$22,550.00

OPERATING EXPENDITURES—ESTIMATED 1947

Department	Branch	Research	Development	Analysis and Testing
Agriculture	Ontario Veterinary College	26,200.00	52,600.00	13,000.00
Agriculture	Horticultural Experiment Station	86,000.00	15,000.00	—
Agriculture	Ontario Agricultural College	198,732.00	34,204.00	105,221.00
Agriculture	Experimental Farm, Ridgetown	500.00	3,500.00	—
Lands and Forests	Fish and Wildlife	75,300.00	—	14,200.00
Lands and Forests	Forestry	69,200.00	48,500.00	12,300.00
Mines	Geology	9,500.00	288,000.00	—
Highways	Soils and Research	15,000.00	18,000.00	138,400.00
Health	Public Health	43,544.00	20,326.00	800,590.00
		$523,976.00	$480,130.00	$1,083,711.00

Ontario Research Commission:	Research Grants	$300,000.00
	Scholarships	50,000.00
	Administration	22,000.00

SUMMARY—RESEARCH EXPENDITURES—1947

Departmental	$523,976.00
Ontario Research Commission	372,000.00

APPENDIX XII.

DEFINITIONS OF RESEARCH AND SCIENTIFIC ACTIVITY[1]

Three major types of research work can be distinguished: (a) pure or fundamental research; (b) background research, and (c) applied or practical research.

Pure or Fundamental Research is defined as an investigation directed towards a discovery of previously unknown facts resulting in general knowledge and understanding of nature and its laws. The material application of the results of pure or fundamental research are not, of necessity, a basic consideration in undertaking this type of research but it forms the fundamental basis for all applied research and development work.

Background Research is defined as the collection and analysis of initial data for both pure and applied research. It consists of surveys and descriptions of basic facts such as the preparation of accurate geological maps, the determination of physical and chemical constants, the description of species of animals, plants, and minerals, the determination of standards such as those established for hormones, drugs, etc.

Applied or Practical Research is defined as an organized effort directed towards new applications of known scientific facts or principles to practical problems. As indicated previously, the distinction between fundamental and applied research is not always a hard and fast one and both contribute to progress in scientific knowledge. To give an instance, the study of the principles of electronics would be classed as pure research while the investigation of ways and means to use electronics in the home or factory would be applied research.

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[1] Research and Scientific Activity, Canadian Federal Expenditures—1938-1946. Pages 11 and 12.

APPENDIX XIII.

SUMMARY OF RECOMMENDED BUDGET EXPENDITURES—1948-49

	Capital	Operating	Total	
FISHERIES AND WILDLIFE COMMITTEE	$	$	$	
McMaster University	5,037.00	20,165.00	25,202.00	
Queen's University	1,850.00	5,466.00	7,316.00	
University of Western Ontario	5,950.00	11,050.00	17,000.00	
University of Toronto	2,900.00	17,750.00	20,650.00	
Royal Ontario Museum of Zoology	1,500.00	14,850.00	16,350.00	
Ontario Research Foundation	2,775.00	24,200.00	26,975.00	113,493.00
FORESTRY COMMITTEE				
Queen's University	315.00	5,495.00	5,810.00	
University of Toronto	—	20,900.00	20,900.00	
Ontario Research Foundation	2,000.00	19,200.00	21,200.00	
Unclassified as yet	—	—	2,090.00	50,000.00
MINES, MINERALS AND METALLURGY COMMITTEE				
University of Toronto	6,020.00	10,047.00	16,067.00	
Queen's University	15,000.00	5,000.00	20,000.00	
Ontario Research Foundation	10,000.00	39,550.00	49,550.00	
McMaster University	—	—	5,000.00	90,617.00
INDUSTRIAL RESEARCH COMMITTEE				
Ontario Industrial Research Service	—	38,500.00	38,500.00	
Group Research	—	25,000.00	25,000.00	63,500.00
INDUSTRIAL WASTE COMMITTEE				
Department of Health	—	15,000.00	15,000.00	15,000.00
AGRICULTURAL COMMITTEE				
Ontario Research Foundation	2,000.00	18,000.00	20,000.00	20,000.00
SOILS COMMITTEE				
Ontario Research Foundation	1,300.00	22,425.00	23,725.00	23,725.00
AERIAL SURVEY COMMITTEE				
University of Toronto	—	—	5,000.00	5,000.00
SCHOLARSHIPS			50,000.00	50,000.00
ADMINISTRATIVE UNIT			25,000.00	25,000.00
				$456,335.00

$300,000.00. The work is under competent direction of research workers in the universities and the Ontario Research Foundation.

4. The diverse experiences and observations of the Commission have afforded the material required as a foundation on which the Commission can now construct a continuing permanent plan for the organization of research effort in Ontario, a plan which the Commission can confidently recommend to the Government as promising to achieve the purpose set forth previously in this report.[1]

5. From the outset the Commission studied with care the existing and prospective facilities for the training of research workers in order to ascertain whether they were adequate to meet the needs. In the light of the limitations revealed by the study the Commission, even in its first year of service, recommended the establishment of a system of fellowships as the first and indispensable step towards providing for the training of a competent personnel. During the present academic year the Government provided an appropriation of $50,000.00. 58 students have been assisted by scholarships to a total of $44,275.00. The profitable experience afforded by the operation of this system has prompted the Commission to recommend it as a necessary instrument of permanent policy.

(b) **Expanded Statement.** The obvious first step of the Commission was to determine the several fields of scientific research with which the Province is concerned. The Commission has held twenty-two meetings, some of which extended over three days. Individual members of the Commission in addition have attended meetings of the Advisory Committees and on occasion have acted as Chairmen to them in the preliminary stages of their organization. The personnel of the Advisory Committees is given in the Appendices. The administrative office at 43 Queen's Park has been the centre for almost daily informal meetings of research men. Special efforts were made to keep visiting scientists in touch with the activities of the Commission by arranging visits and conferences.

Various Fields of Research

A careful survey revealed that the fields which stand out with marked individuality are:

Agriculture
Fisheries and Wildlife
Forestry (Production and Utilization)
Industry (both large and small)
Mines, Minerals and Metallurgy
Soils
Highways[2]
Industrial Wastes[2]
Aerial Surveys.[2]

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[1] See Page 2, supra.

[2] These are of a more general character in that they overlap in some degree upon one or more other fields.

Committees and their Work

In order to secure the fullest possible amount of authoritative data upon research in all these fields, the Commission has instituted in each field a Committee composed of persons who are best acquainted with that field. Since a Committee includes, in addition to workers in scientific research, representatives of both federal and provincial departments charged with the administration of natural resources, as well as representatives of interested industries, the Commission is convinced that the representation thus provided is satisfactorily comprehensive. For the guidance of each Committee its function has been clearly outlined by the Commission:

(a) to survey its specific field thoroughly;

(b) to report to this Commission such facts as it may find regarding the status of the research in that field, and, further, to report upon the existing facilities and trained personnel required;

(c) to recommend the means for applying scientific knowledge.

By means of this division of duties among the several Committees the Commission has been able to attain two results of primary importance:

(a) a manageable co-ordination of the great volume of diverse material submitted by the Committees;

(b) a clear conspectus of the real problem and of the active program required in the whole territory of research in Ontario.

The Main Advisory Committees have held approximately 40 meetings, the Sub-Committees 20, and Executive Committees held 17 meetings. Most of the meetings were held in Toronto but some were held in other places in the Province which are of special interest to the particular committee concerned. This permitted discussion of local problems, since interested scientists in the area were invited to sit with the Committees.

The research activities under the Committees are too numerous to list or to describe here, but a few examples outlined briefly will indicate the way in which the committee system functions.

1. The Committee on Mines, Minerals and Metallurgy set up a sub-committee to investigate the problem of mine cable or wire rope. This sub-committee with the co-operation of the Ontario Research Foundation has begun work, is preparing a general bibliography and is fabricating a variety of different ropes under controlled conditions. These ropes will be put into service and accurately observed during their period of use. Concurrently, apparatus is being constructed which will test ropes in the laboratory under plant conditions.

2. Another problem of the same Committee has to do with the production of sponge iron from Ontario ores. As a step in the investigation, fifty-five tons of Steep Rock ore was sent to Sweden and put through a Wiberg furnace. A report on the progress of this work is being prepared.

3. The Committee on Fisheries and Wildlife has initiated an important and comprehensive program on Lake Erie. The program comprises a study of (1) chemical conditions of the water in regard to oxygen, carbon dioxide,

acidity, alkalinity, silica, nitrogen and phosphorus content; (2) physical conditions of the water in regard to temperature gradients and light penetration; (3) miscroscopic plant and animal populations; (4) the nature of the lake bottom; and (5) the spawning and early growth of the commercially valuable fish.

Scholarships

The system of scholarships instituted by the Government of the Province and administered by the Commission has already proved its worth and should be continued. It enabled the Commission even in the first year of its existence to assist many promising students and to inaugurate several very important research projects. As the system continues to function the numbers and quality of skilled scientists will be rapidly enhanced.

In 1947 fifty-eight scholarships have been provided amounting in all to a value of $44,275.00. The students are at all stages of their graduate courses and the distribution among subjects and the universities is shown in Appendix X.

Economics and Statistics

From the outset the Commission has conferred frequently with the Ontario Bureau of Statistics and Research and with the Economic Research Branch of the Department of Reconstruction in Ottawa. This association has been of great value in revealing the intimate connection that often exists between scientific research and economic research, and has emphasized the fact that frequently it is advisable to make an economic survey before undertaking a research.

4. RECOMMENDATIONS

Your Commission recognizes that decisions on matters of general policy concerning scientific and industrial research must remain a function of Government, such decisions to be reached through the medium of a Cabinet Committee or through such other means as the Government may find most appropriate. Your Commission respectfully submits the recommendations which follow:

Permanent Advisory Council

(a) That a permanent Commission or Advisory Council[1] be set up to continue to guide the research activities of the Province in such a way as to take advantage of the organization and undertakings already instituted by the present Commission.

The Commission conceives the chief functions of the Council to be:

Advise Government as to relative needs for aid

1. to advise the Government as to the financial aid required to carry out each successive annual program of research; also to correlate all research projects supported by the Government with a view to ensuring that the amount of research devoted to the various kinds of the Province's natural resources and the moneys appropriated therefor be distributed in just proportion among them;

Welcome advice from all sources

2. to receive and weigh representations from any authoritative source within the Province concerning the needs of research in all fields;

Advise various interests as to best means of investigation

3. to advise the Government as well as industrial and other interests, according to the needs of either or of both, in their selection of the most satisfactory means of undertaking specific research projects;

Research information

4. to institute some form of service, either independently or in co-operation with other agencies, as the Council may deem best, to promote the distribution of information concerning research and its results, especially information pertinent to the various interests of Ontario; and also to assist in the preparation and publication of appraisals of scientific information not available through the usual channels.

To encourage co-operation between Government and Industry

5. to institute some form of co-operative research in which industry and the Government participate in financial support in some such form as obtains in the Industrial Research Associations of Great Britain;

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[1] The proposed permanent or Advisory Council will from this point onwards be referred to as the Council.

Scholarships 6. to assist, through the maintenance of a system of scholarships and other approved means, in providing, on an increasing scale proportionate to requirements, for the training of a competent research personnel;

Reports 7. (i) to provide the Government periodically with comprehensive reports which set forth clearly the progress of the research activities within the Province;

(ii) to encourage the publication, chiefly for the information of the general public, of sober factual statements, cast in non-technical, readable language, of the research activities sponsored by the Council, the purpose of such publications being to preclude unwarranted expectations of greater and speedier results than can be justified.

Committees in all fields of research (b) That in each major field of research there be instituted a Committee composed of representatives of all important divisions of the field, the function of the Committee being to assist the Council in the discharge of its functions by:

1. maintaining a continuous survey of the needs and developments in its field;

2. keeping the Council informed concerning the findings of the surveys;

3. reporting to the Council the Committee's judgment as to allocation of approved research projects, and also as to estimates of the amounts of money required to support them all and severally;

4. assisting in assembling, analysing and interpreting information relating to the field of each Committee's particular competence.

Statutory grants (c) Finances.

1. That the Government assure the Council of the provision each year of a minimum statutory grant of funds; this is required to meet the expenses of:

(i) the full time executive office of the Council and the Committees;

(ii) the expenses of the Council and the Committees;

(iii) maintaining annual scholarships, and special "grants-in-aid";

(iv) securing the uninterrupted support of long-term research projects not otherwise provided for;

(v) such service or services as may be set up to provide for the publication of reports and the distribution of information regarding research.

Annual appropriations

2. The Commission regards it as obvious that annual grants, some appropriated expressly to meet the cost of short-term projects, and others to enable the Council to respond promptly to emergent situations in reference to research, will also be required.

Responsibility for administration of finance

3. The Commission holds the view that the administration of the finances involved in the support of programs recommended by the Council is logically the function of a Department of Government and not of the Council.

Special nature of research

As the Commission proceeded in its investigations it became more and more aware that the unique nature of true research is a factor that must always be borne in mind if the object of research is not to be imperilled. Research is veritably a "sensitive plant" in the realm of higher human endeavours. Hence, the strict application of a rigid administrative system to some kinds of research work may, through creating an atmosphere inimical to the conduct of research, cause great waste of time, money and effort. Flexibility should be allowed to the degree that affords the greatest freedom compatible with safety. Flexibility is important in securing the right man for the right job and in the financial control of the project which has been entrusted to him. The Commission hopes that the Council whom the Government may appoint to succeed the Commission will make provision to review the situation periodically in order that such freedom and flexibility are maintained as a practice.

5. GENERAL OBSERVATIONS ON GOVERNMENT AND INDUSTRIAL RESEARCH AS APPLIED TO ONTARIO

Provincial Government has a responsibility for research

In the light of its long and comprehensive survey of the conditions obtaining in regard to scientific research the Commission clearly sees the reasons why the responsibility for supporting a large program of research rests upon the Government of Ontario.

1. In the first place, Canada is too large a country to warrant it entrusting the whole program of scientific research solely to one organization.
2. The more modest proportions of the Province offer the conditions that promise more rapid progress in certain kinds of research. The control over the natural resources of the Province are a constitutional responsibility of the Province. Research into better methods of improving and utilizing the natural resources is also a provincial responsibility.

3. Ontario is the largest and most highly industrialized of the provinces; by reason of her distinctive geographical situation and the vast variety of her resources, she has a large number of research problems that are peculiarly her own.

The Commission, therefore, holds it to be a normal function of the Government of the Province to take a leading part in promoting, co-ordinating and supporting financially an extensive program of approved effort in this broad realm. The program covers many fields which, though lightly overlapping upon each other in some instances, are nevertheless to be regarded for practical purposes as separate. The measure of the responsibility of government in each field should logically be deduced from the measure of the importance of each field, both absolutely and relatively, in the economic and other interests of the people.

Dominion-Provincial Division of Funds

In order that expenditures for research be allocated in proper proportion as between the Dominion Government and the Provincial Government, it is imperative that an active liaison be maintained between the two governments. The Commission is of the opinion that if the most effective benefits from research are to be assured, each research unit should be close to the ultimate beneficiary. In order to make sure that the highest degree of co-ordination obtains between the two governmental agencies it will be necessary in the case of each project to determine carefully at the outset and to re-examine frequently thereafter the division of responsibility for conducting the investigation concerned and for the provision of the funds supporting it. It is a matter for profound regret that at present statistics on governmental expenditures for research are very indefinite and are compiled on a diversity of bases. Hence they do not permit one to make more than very general statements on their authority, nor even to make comparisons among them that have any meaning of value. As prevailing vaguenesses are abated, in like proportion will the division of responsibility for conducting and financing certain kinds of research become more sharply defined.

Proportion of Government Aid

The amount of financial aid for research provided by all agencies, including the Government of the Province, and, hence, the sum of the research efforts made possible by this aid, fall very far short of meeting the host of existing needs.

The deficiencies in research facilities and activities in Ontario which the Commission has found in its survey are thrown into high relief when compared with the statistics in regard to research under other governmental jurisdictions. It is not possible to arrive at a fair comparison. Some figures quoted are: 8/10 of 1% of national income in Britain, 1% projected in U.S.A. and an estimated 1% in Russia. In agriculture in Ontario with a productive value of more than $400,000,000.00 only $300,000.00 is being spent on research this year.[1]

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[1] See Appendix XI.

APPENDIX VI.

INDUSTRY

Committee:

Mr. E. T. Sterne (Chairman)	G. F. Sterne & Sons Limited (Industrial Chemicals).
Mr. Thomas E. Boyce	Disher Steel Construction Co. Ltd.
(Substitute: Mr. Howard Chamberlain)	Lowe Bros. Co. Ltd. (Paints).
Mr. T. A. Faust	Yocum Faust Limited (Industrial Chemicals).
Mr. G. C. Bernard	Canadian Manufacturers' Association Inc.
Mr. F. J. Lyle	Ontario Dept. of Planning and Development.
Mr. Lorne S. Campbell	Ontario Dept. of Planning and Development.
Dr. H. B. Speakman	Ontario Research Foundation.
Mr. A. B. Ward	Ontario Research Foundation.
Mr. D. F. MacRae	Ontario Research Foundation.
Prof. J. O. Wilhelm	Ontario Research Commission.

Meetings:

April 14th, 1947	Ontario Research Foundation, Toronto.
May 9th, 1947	Ontario Research Foundation, Toronto.
June 18th, 1947	Ontario Research Foundation, Toronto.
September 12th, 1947	Ontario Research Foundation, Toronto.
November 4th, 1947	Ontario Research Foundation, Toronto.
December 1st, 1947	Ontario Research Foundation, Toronto.

Following the publication of the Interim Report of the Commission a working committee was set up comprising two members of the Department of Planning and Development, two from the Ontario Research Foundation, two from the Ontario Division of the Canadian Manufacturing Association, the Manager of the Ontario Division of the Canadian Manufacturers' Association and a member of the Ontario Research Commission as Chairman.

The Committee has been studying the problem and reports the progress made up to the present.

In the submission presented by the Ontario Division of the Canadian Manufacturers' Association and published in the Interim Report the following three suggestions were made:

1. Creation of a program conducted by the Ontario Research Foundation and designed to bring the work and facilities of the Foundation to the attention of manufacturers in the Province, and in particular to the smaller manufacturers;
2. Further exploration by the Foundation of the possibilities of bringing groups of industries with common problems into a closer relationship with the Foundation for the purpose of solving these problems on a basis of mutual benefit;

3. The encouragement of organizations of scientific and productive personnel within broad groups of industries, particularly those maintaining research facilities of their own, for the interchange of ideas and information which would help all these industries in their work.

In the spring of 1947 at the request of the Ontario Research Commission the Government made available the necessary funds to initiate the program and arrangements for the additional space required are in process of completion.

Your Committee can report definite progress.

With regard to the first of the recommendations made by the Canadian Manufacturers' Association the Ontario Research Foundation has been able to secure a thoroughly competent chemical engineer to head up a department co-operating with the Department of Planning and Development and with individual manufacturers. This department is known as the Ontario Industrial Research Service. Already more than 260 firms have made inquiries and of these 165 have led to laboratory work in the four months the Service has been in operation. The services being rendered exceed expectations and are taxing existing personnel and facilities. The future of this division promises to be of great service to our industries, large and small.

The carrying out of the second recommendation of the Canadian Manufacturers' Association respecting group research has met with some delays, but with the co-operation of the Canadian Manufacturers' Association and its committees this work will soon be begun.

The third recommendation involves a long-term policy based, to a large extent, on the first two recommendations. The work involved will have to be done in close co-operation with the Canadian Manufacturers' Association. The body that may be set up to carry this out will be responsible for directing this activity and maintaining interest in it.

A fourth recommendation designed to promote the training and wide distribution of trained technical personnel throughout industry, should have the leadership of the continuing organization that will work with the Canadian Manufacturers' Association, the Technical Service Council and other interested groups.

This Committee recommends that a permanent continuing committee of the Council be instituted, that its membership be based upon the same principle of representation as that upon which the present committee is based, and that at least one member of the Council sit with the Committee at its sessions.

RECOMMENDED PROJECTS—INDUSTRIAL RESEARCH—1948-49

Title	Participating Agencies	Capital	Operating	Total
ONTARIO RESEARCH FOUNDATION		$	$	$
1. Ontario Industrial Research Service.	Ontario Industries.		38,500.00	38,500.00
2. Group Research.	Ontario Industries.		25,000.00	25,000.00
			63,500.00	63,500.00

APPENDIX VII.

INDUSTRIAL WASTE

Committee:

Mr. E. T. Sterne (Chairman)	G. F. Sterne & Sons Limited (Industrial Chemicals).
Dr. A. E. Berry	Ontario Dept. of Health.
Mr. G. A. H. Burn	Ontario Dept. of Health.
Prof. A. C. Plewes	Chemical Engineering, Queen's University.
Dr. H. B. Speakman	Ontario Research Foundation.
Mr. A. V. DeLaporte	Ontario Dept. of Health.
Prof. R. R. McLaughlin	Chemical Engineering, University of Toronto.
Prof. J. O. Wilhelm	Ontario Research Commission.

Meetings:

June 18th, 1947	Ontario Research Foundation, Toronto.
July 17th, 1947	Ontario Research Foundation, Toronto.
September 12th, 1947	Ontario Research Foundation, Toronto.
November 4th, 1947	Ontario Research Foundation, Toronto.
December 4th, 1947	Ontario Research Foundation, Toronto.

At the request of the Ontario Research Commission a Committee was set up to study the overall problem of industrial wastes, and to recommend procedures to solve the problems bearing upon the eventual use or disposal of these wastes.

As Ontario becomes more densely populated, as the forests are cut down and the rivers and ground waters decrease in volume, industrial wastes increase and the problem of their disposal is progressively enlarged and each day becomes more urgent.

The Department of Health has submitted the following information and comment:

> The industries in Ontario in which problems arising from the disposal of waste are the cause of great public concern include the following:
>
> 1. The milk industry, including all types of processing plants;
> 2. The canning industry;
> 3. Other food industries, including meat packing plants, food drying plants, processing plants, soft drinks, etc.;
> 4. Leather tanning;
> 5. Pulp and paper plants;
> 6. Oil wells and refineries;
> 7. Rubber manufacturing;
> 8. Woollen and textile plants;

9. Plants for producing many kinds of industrial chemicals, for example: 2-4-D;
10. Manufacture of plastics;
11. Breweries and distilleries;
12. Metal working;
13. Gas and coke manufacturing;
14. Laundries.

NOTE: These industries are widespread in Ontario and they are increasing in numbers and in variety and quantity of products. Many of these industries discharge their wastes into public sewers and thereby create problems for municipalities. Other wastes are discharged direct into natural bodies of water such as lakes and rivers. New processes are continually being developed and these involve changing types of wastes.

The problem of waste disposal involves environmental sanitation and economics. The best results can be obtained only when research is conducted continuously and effectively.

As the milk industry is widely distributed all over the Province and is mainly in small plants with poor or no disposal facilities, your Committee has asked the Department of Health to estimate the financial requirements for launching work upon this disposal problem. This estimate is being submitted.

It is very plain from a study of the list of industries above that the problem of milk waste involves only the first of a long series of researches which must be undertaken in the whole field of waste disposal. The health of our people and the productivity of our industries are so dependent on finding solutions to the several problems of disposing of wastes that this work should be carried on with persistence and with courage.

The Experimental Station of the Ontario Department of Health in which much of this work might be carried on was constructed at Toronto in 1907. The main part of the building is in very poor condition. There is an obvious need for more adequate facilities for this type of work and it is strongly recommended that such facilities be provided.

Your Committee recommends that as the program progresses a similar continuing Committee with additional industrial representation be set up to further this work.

RECOMMENDED PROJECTS—INDUSTRIAL WASTE COMMITTEE—1948-49

Title	Agency	Capital	Operating	Total
Milk Waste Disposal and Utilization.	Department of Health, Ontario.	$	$ 15,000.00	$ 15,000.00

APPENDIX VIII.

HIGHWAYS

Committee:

Mr. W. S. McKay (Chairman)	Ontario Good Roads Association.
Mr. H. N. Lamont (Secretary)	Ontario Dept. of Highways.
Mr. T. N. Carter	Ontario Road Builders' Association.
Mr. L. J. Chapman	Ontario Research Foundation.
Mr. D. J. Emrey	County Engineer, Kitchener.
Mr. T. F. Francis	Ontario Dept. of Highways.
Mr. W. B. Hastings	Ontario Motor League.
Mr. A. K. Hay	Federal District Commission.
Prof. R. A. Low	Civil Engineering, Queen's University.
Mr. J. A. P. Marshall	Ontario Dept. of Highways.
Dr. N. W. McLeod	Imperial Oil Limited.
Mr. W. J. Moore	Ontario Good Roads Association.
Mr. C. A. Robbins	Ontario Dept. of Highways.
Mr. D. O. Robinson	Canada Cement Company.
Prof. W. L. Sagar	Civil Engineering, University of Toronto.
Mr. J. Walter	Ontario Dept. of Highways.
Mr. R. B. Young	The Hydro-Electric Power Commission of Ontario.
Prof. J. O. Wilhelm (ex officio)	Ontario Research Commission.

Meetings:

June 10th, 1947	Parliament Buildings, Toronto.
September 25th, 1947	Parliament Buildings, Toronto.
November 28th, 1947	Parliament Buildings, Toronto.
January 16th, 1948	Parliament Buildings, Toronto.

Sub-Committees:

Organisation

Mr. W. S. McKay (Chairman)	Ontario Good Roads Association.
Mr. D. J. Emrey	County Engineer, Kitchener.
Mr. T. F. Francis	Ontario Dept. of Highways.
Mr. H. N. Lamont	Ontario Dept. of Highways.
Prof. R. A. Low	Civil Engineering, Queen's University.
Dr. N. W. McLeod	Imperial Oil Limited.
Mr. J. Walter	Ontario Dept. of Highways.
Prof. J. O. Wilhelm (ex officio)	Ontario Research Commission.

Planning, Economics and Administration

Prof. R. A. Low (Chairman)	Civil Engineering, Queen's University.
Mr. A. E. K. Bunnell	Ontario Dept. of Planning and Development.
Mr. W. A. Clarke	Division Engineer.
Mr. G. R. Marston	County Engineer.
Mr. W. J. Fulton	Ontario Dept. of Highways.
Mr. J. M. MacInnes	Ontario Dept. of Highways.
Mr. J. L. Zoller	Ontario Dept. of Highways.

Soils and Foundations

Mr. J. Walter (Chairman)	Ontario Dept. of Highways.
Mr. D. J. Emrey	County Engineer.
Prof. R. A. Low	Civil Engineering, Queen's University.
Mr. D. McGinnis	Contractor, Kingston.
Dr. N. W. McLeod	Imperial Oil Limited.
Mr. D. G. Watt	The Hydro-Electric Power Commission of Ontario.

Design

Mr. D. J. Emrey (Chairman)	County Engineer.
Mr. T. F. Francis	Ontario Dept. of Highways.
Mr. R. M. Lee	County Engineer.
Dr. N. W. McLeod	Imperial Oil Limited.
Mr. D. G. Ramsay	Ontario Dept. of Highways.
Mr. D. O. Robinson	Canada Cement Company.
Mr. J. Walter	Ontario Dept. of Highways.

Materials and Construction

Mr. T. F. Francis (Chairman)	Ontario Dept. of Highways.
Mr. C. Fraser	Ontario Dept. of Highways.
Mr. T. Johnston	Ontario Dept. of Highways.
Mr. E. W. Jones	County Engineer.
Mr. T. R. Patterson	County Engineer.
Prof. W. L. Sagar	Civil Engineering, University of Toronto.

The results of the deliberations of this Committee are embodied in two resolutions:

1. That the Department of Highways be approached with a view to ascertaining whether or not, and to what extent, the Department would consider participating in a joint library scheme.

It was felt that present Highway Library facilities could be utilized to much better advantage than in establishing a new and independent library. This proposal is designed to provide adequate facilities and be of mutual benefit to the Department and the Highway Research body.

The following features are considered to be necessary in order to render an efficient service:

1. A trained librarian and adequate staff
    (a) organize and index the existing facilities according to some definite system, e.g. the Legislative Library, Highway Research Board, National Library;
    (b) draw upon other sources for technical information and index the data so obtained;
    (c) make this information available to all interested parties.
2. Extension of the present Department of Highways Library to provide adequate space for all requirements, including study and reading purposes. In allotting such space, ample provision should be made

not only for present requirements, but also for future expansion so that the original set up need not be unduly disturbed;

3. Provide an extension service to highway, county, township and municipal engineers and other interested parties, who would thereby have available information on the latest investigations in current highway practices.

Such a library might be established as one unit of a general co-operative library scheme designed to provide a comprehensive scientific library service for Government departments and other scientific groups in and about the Toronto area.

2. That a highways research program be now undertaken.

The following were selected as the subjects wherein further research is deemed to be most urgently needed, viz.:

1. Supporting Value of Subgrade Soils and Base Courses;
2. Soil Compaction and Frost Action of Subgrade Soils;
3. Durability of Bituminous and Concrete Aggregates;
4. Inventory of Granular Materials;
5. Design of Concrete and Bituminous Pavements.

The selection of these subjects was approved by the General Committee after careful consideration by its four sub-committees. As a helpful guide to them in making this selection they had available the answers to a questionnaire sent out by the Committee to 117 engineers, including every city, county and district engineer. This questionnaire listed fifteen highways research subjects and the recipient was asked to indicate which of these he considered most important and also the order of their importance, and to add to the list any subject which he thought should be included.

Answers to the questionnaire were received from 48 engineers. These answers were then classified. The five subjects above named were selected as deserving priority of attention in the proposed Highways Research program. Each of these subjects was then assigned to the particular sub-committee or sub-committees to which it appeared to belong. This procedure enabled the Committee to consider what steps should be taken to carry out the research required.

Of the several agencies which might be expected to participate in the carrying out of such a research program the Committee recognizes that the Department occupies a position of paramount importance, and that it is already engaged in a limited program of highway research.

The Committee's recommendations if adopted by the Department would involve, therefore, simply an expansion and possible intensification of the present program. Such an expansion would probably require the employment of additional trained personnel for full time research work, the purchase from time to time of additional research equipment, and an increased annual expenditure on account thereof.

The Committee's estimate of the amount which would be required each year to finance the carrying out of such a program of research is $250,000. In a year when the total provincial expenditure on highways was $50,000,000 or over, the spending of $250,000 for highways research would represent not over ½ of 1% (one-half of one per cent) of the total. That this is a comparatively modest percentage is evident from a comparison with the percentage expended for research in other cases, e.g. 8/10 of 1% in Great Britain, 1% in U.S.A., 1% in Russia and 1% in Canada at the Dominion level. Furthermore, if the amount estimated as being required to cover the cost of such a program seems high, the possible cost to the Province of failing to pursue such a program must not be lost sight of.

No unnecessary duplication

The Commission has found through the activities of the Committees that there is no wasteful duplication of research.

One must not assume, however, that there should never be any duplication of research effort. On the contrary, certain special problems may arise in the investigation of which positive advantage may be gained if several workers are undertaking concurrent research directed to the same end. The inevitable differences among the workers in regard to points of view, knowledge, experience and technique, would promise a more exacting testing of methods and results, and, possibly, also hasten the attainment of objectives.

Personnel

The supply of trained personnel is far below the number needed to carry on the program of research for which financial support is available even now.

That the existence of a sufficiently large and highly trained staff is the prime prerequisite to carrying out successfully a worth-while program of research is patent to everybody. There are occasions when improvised physical facilities may serve satisfactorily but only when at the same time there is the trained staff to direct the improvising. But personnel can never be improvised, since there is no substitute whatever for the highest type of skill and training involved. It is of the utmost importance not only that the number of scientists be adequate but also that they be distributed among the several fields of research in proportion to the relative needs of these fields. It will be one of the duties of the Council to determine at the outset the nature and extent of all physical facilities required, and the numbers and composition of the personnel needed to carry out the programs of research outlined. This will enable the Province to maintain material and personnel at proper levels.

Universities chief training school of personnel

The duty of providing a trained research personnel rests chiefly with the universities. The Commission is fully aware that it is without authority to recommend financial expenditures other than those required for the support of research. Nevertheless, it believes it to be its duty to call attention to the existence of an unavoidable combination of factors, one of them being outside the Commission's purview, upon whose internal balance hinges the success or failure of any large scale program of research. These are, in order of importance and timing: the universities, the research force, the investigation, the results. These are like a row of children's building blocks: if the first falls, all the others fall in sequence. If the universities are without sufficient means to train increasing numbers of research workers, the force will be hampered, research will languish, results will be scanty and disappointing, because Ontario will be unable to keep her position in relation to the rest of the world.

Government department training

The policy of offering to university graduates and undergraduates summer employment under departments of government in activities involving actual research endeavour affords sound practical training in certain fields.

At present the influences that have the greatest effect in retarding enlistment in the ranks of research workers in Ontario are two: (a) uncertainty as to the probability of finding enough openings for employment in Canada in the fields in which the candidates are trained; (b) the glaring fact that at the same level of employment and of the workers' scientific training the scale of salaries in Canada is lower than that obtaining in the United States. This adverse effect would be appreciably offset if the Government would soon adopt a general policy of expanding the employment of scientists.

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Distribution of technical information

A great part of scientific knowledge which has resulted from research would be of great value to the Province if it could be more fully utilized.

It would seem to be a duty of the Council to devise and progressively to evolve some systematic means whereby such scientific knowledge can be made more readily available than it now is for those to whom it may be of benefit. True, Canadian scientific and technical workers are not entirely without sources of this kind of information; for example, the Technical Information Service of the National Research Council, the research services of the Ontario Research Foundation, the libraries of universities, industries, scientific institutes and a number of co-operative associations. But useful as these are, they are not as useful as they would be if there existed some medium designed to co-ordinate all avenues of access to their combined resources and the resources of all other services. The need is great and the task of meeting it is difficult, though, if the problem is studied thoroughly, not impossible.

Natural resources

All the investigations undertaken by the Commission have without exception led the Commission to the unqualified conviction that a greatly increased financial support of research on the part of the Government is imperative. In certain fields—Forestry, Fisheries and Wildlife, Soils, Mining and Agriculture—this is especially obvious because of the deplorable and widespread economic effects caused by an excessively rapid consumption and destruction of natural resources in these fields.

The fact that the Governments of Great Britain and the United States are vastly increasing their expenditures for research in the field of natural resources is ample proof of their conviction that research is a vital necessity if their resources are to be adequately developed.

Industry

A large number of the big industries have long been operating extensive research laboratories of their own and are steadily increasing their annual appropriations for that purpose. This fact the Commission regards as the most convincing single proof that profit can be derived from scientific research.

Small industries

A very real problem lies with the small industries. Many of them are unaware of the import of scientific research; to many the idea has never occurred that science has any practical bearing upon their businesses; many firms are so small that they are unable either to set up laboratory research facilities of their own or to support fellowships in a public research institute.[1] Such firms are without defence against the penalties that result from obsolete processes and products. It is as much the duty of government to aid in providing the needed defence for small industries and their dependent communities as it is in other fields. However, the method of providing aid of this type is different, difficult and slow, as it was at one time in Great Britain. The Commission is fully persuaded that the same kind of result that has been achieved in Great Britain can be achieved here through the co-operative effort of industry and government.

The Commission in its Interim Report recommended that the facilities of the Ontario Research Foundation be expanded to include an industrial advisory service. With the co-operation of the Canadian Manufacturers' Association, the Trade and Industry Branch of the Department of Planning and Development and the Ontario Research Foundation, it was possible to begin this service in July of 1947 under the title, Ontario Industrial Research Service.

The Industrial Research Committee of the Commission is planning, in addition, a program designed to promote a greater measure of co-operation within individual industrial fields with a view to the solution of the problems common to each field. This program is receiving the energetic support of the Canadian Manufacturers' Association, the Department of Planning and Development and the Ontario Research Foundation.

Ontario Research Foundation

The industrial economy of the Province requires an ever increasing application of science to its operations. The demands for scientific assistance are greater even than in wartime. The Ontario Research Foundation is gearing itself to serve a broader field and needs adequate financial support on that account.

Government contribution to research

In this report the Commission includes a program of research in each field which the Commission believes it profitable to undertake[2]. Every project in these programs has been selected in the light at once of general needs and relative urgency. The Commission is fully aware that the adoption of the recommendations to support research programs of the scale and scope described and at the same time to provide for the training of an ever increasing force of skilled personnel, will commit the Province to a progressive annual expenditure under the title of research which will greatly exceed that made in any past year. The ripest reflection can lead only to the conclusion that if the Province is determined to make the best possible use of its resources and sees clearly that organized research supported by the Government is the only known avenue leading directly to that end, the Province cannot avoid assuming the obligation. It is the price that must be paid for the enhancement of the people's welfare and prosperity through the proper use of our Province's natural heritage of potential wealth.

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[1] See Annual Report of the Ontario Research Foundation, 1945, page 7.

[2] See Appendix I-IX.

But what assurance has one that there will be worth-while return from the investment which the Commission counsels the Province of Ontario to make in research? Happily, one can offer a positive and most encouraging assurance, an assurance drawn direct from the Allied Nations' experiences in war. So great is Britain's confidence in it that even in this time of economic distress she boldly supports her research program for this year by voting an unprecedented appropriation—£67,000,000 on general account and, in addition, £11,000,000 for research in the universities. The reason for Britain's exemplary faith in research is set forth clearly in a statement made a year ago by Sir Edward Appleton, Secretary of the British Government's Department of Scientific and Industrial Research; it may be quoted here with eminent appropriateness:[1]

> "The speed at which development was carried through in wartime made it easy to trace cause and effect, and to see how the final product was related to the efforts of the research worker. The public has thus had a complete demonstration of what science—variously applied—can achieve, and has come to realise what it may expect from science in peacetime. Accordingly the public wants to be assured that the facilities and resources in this country both for fundamental and applied research are adequate, that industry is ready to use the results of research, and that the intimate and fruitful collaboration between science and industry established in the war will be continued."

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[1] Industrial Research, 1946, Todd Publishing Company Limited, London and New York, p. 33.

APPENDIX I.

FISHERIES AND WILDLIFE

Committee:

Prof. J. R. Dymond (Chairman)	Royal Ontario Museum of Zoology.
Dr. A. M. Fallis (Secretary)	Ontario Research Foundation.
Prof. C. E. Atwood	Zoology, University of Toronto.
Dr. A. O. Blackhurst	Ontario Federation of Commercial Fishermen.
Dr. C. H. D. Clarke	Ontario Dept. of Lands and Forests.
Prof. A. F. Coventry	Zoology, University of Toronto.
Mr. E. C. Cross	Royal Ontario Museum of Zoology.
Dr. H. W. Curran	Biology, Queen's University.
Dr. F. E. J. Fry	Zoology, University of Toronto.
Dr. W. J. K. Harkness	Ontario Dept. of Lands and Forests.
Mr. L. Hughes	Ontario Tourist Trade Association.
Prof. F. P. Ide	Zoology, University of Toronto.
Dr. W. H. Johnson	Zoology, University of Western Ontario.
(Substitute: Dr. H. Battle)	Zoology, University of Western Ontario.
Dr. R. R. Langford	Zoology, University of Toronto.
Mr. H. H. MacKay	Ontario Dept. of Lands and Forests.
Mr. K. M. Mayall	Ontario Dept. of Planning and Development.
Mr. Tom C. McCall	Ontario Dept. of Travel and Publicity.
Mr. W. Austin Peters	Ontario Federation of Anglers and Hunters.
Dr. N. W. Radforth	Botany, McMaster University.
Mr. Lester L. Snyder	Royal Ontario Museum of Zoology.
Dr. A. Emerson Warren	Zoology, McMaster University.
Prof. J. O. Wilhelm	Ontario Research Commission.

Meetings:

November 10th, 1945	Ontario Research Foundation, Toronto.
December 1st, 1945	Ontario Research Foundation, Toronto.
April 6th, 1946	Parliament Buildings, Toronto.
August 19th, 1946	Queen's University Biological Station, Chaffey's Locks.
October 4th, 1946	Royal Ontario Museum of Zoology, Toronto.
November 9th, 1946	Royal Ontario Museum of Zoology, Toronto.
March 22nd, 1947	Royal Ontario Museum of Zoology, Toronto.
October 4th, 1947	Royal Ontario Museum of Zoology, Toronto.
November 29th, 1947	Royal Ontario Museum of Zoology, Toronto.

Sub-Committees:

Technical Session, 1948

Dr. F. E. J. Fry (Chairman)	Zoology, University of Toronto.
Dr. A. M. Fallis	Ontario Research Foundation.
Mr. C. David Fowle	Zoology, University of Toronto.
Dr. A. B. James	Toronto East General and Orthopaedic Hospital.
Dr. A. Emerson Warren	Zoology, McMaster University.

Publicity

Mr. E. C. Cross (Chairman)	Royal Ontario Museum of Zoology.
Dr. A. O. Blackhurst	Ontario Federation of Commercial Fishermen.
Mr. L. Hughes	Northern Ontario Outfitters' Association.
Prof. F. P. Ide	Zoology, University of Toronto.
Dr. W. H. Johnson	Zoology, University of Western Ontario.
Mr. K. M. Mayall	Ontario Dept. of Planning and Development.
Mr. L. L. Snyder	Royal Ontario Museum of Zoology.

FISHERIES AND WILDLIFE RESEARCH IN ONTARIO

General Position in the Economy of Ontario

Ontario's fisheries and wildlife are two resources which, while at present in the category of "wasting" resources, could be maintained at a reasonably permanent level. That they are important resources is generally accepted. It could not be otherwise, since ninety per cent of the Province is blessed with one or both of them, and fifty per cent of the Province will produce no other crop than they now produce. They provide a direct annual income of some five million dollars a year to commercial fishermen and trappers, who are the primary producers for a number of secondary industries. They provide the chief attractions for the host of tourists who spend in the Province an estimated hundred million dollars a year, an expenditure which makes possible the employment of a number of people in direct service, and which is the main support for the industries engaged in the manufacture of sporting equipment. Thus they represent an abundant source of exports, provided we realize that Nature's beneficence is not unlimited, and that our privilege of exploiting these tremendous gifts involves the duty of conserving them. Aside, too, from purely monetary considerations is the fact that they afford to many of our own citizens excellent facilities for recreation, a matter of considerable importance to general welfare.

Government Responsibility

The maintenance of these resources is, of course, left almost entirely to the Government. Since their nature is such that they are exploited for pleasure or for profit by thousands of individuals, no private groups or corporations are in a position to assume as much responsibility as they would where exploitation by a few might be directed by commercial common sense, with a view to permanence. Then, too, since the Government derives directly from these resources a large revenue—approximately a million dollars a year—it should be responsible for the proper husbanding of them.

Present Methods of Conservation

That that responsibility has been accepted is borne out by the efforts of the Government to protect both fisheries and wildlife. There have been legal restrictions on the lengths of the hunting and fishing seasons, on the size and the number of the fish taken, and on the number of birds or animals shot. There has been complete protection for some species and there has been considerable re-stocking of game fish and birds. These efforts have modified the effects of too rapid "mining" of these two great resources, but yet are quite inadequate to provide a complete solution to the problem of constant depletion. They are inadequate, not because they are in themselves useless, but because other factors in the environmental factors of fish and wildlife—settlement, cultivation of the soil, deforestation, construction and destruction of dams, and the pollution of water with sewage and industrial wastes—may be detrimental to the purpose motivating our present efforts. These other factors cannot be ignored and any comprehensive long-term program aimed at correcting the basic causes of depletion must be based on adequate knowledge of all the favourable and unfavourable factors.

Present Situation

To date biological research is wholly inadequate to provide the information necessary for the proper administration of Ontario's fisheries and wildlife resources. As a matter of fact, aside from the collection of valuable data made by the Royal Ontario Museum of Zoology over a period of years, there has been no systematic investigation of terrestrial wildlife in the Province. As a result our legislation and our practices have been based more on opinion than on scientific knowledge. The present bounty on "wolves" may be defeating its real purpose—that of deer protection, and it is not unlikely that agriculture may be paying a considerable penalty for our constant warfare against hawks, owls, skunks, weasels and foxes. Even the lowly forest mouse may provide an administrative riddle, for, while it is known to occupy a prominent place in the diet of our fur bearing animals, its depredations may be deterring forest regeneration or may equally well be controlling some insect pests by eating their larvae.

While fisheries research is in a much happier position, historically, it is still too woefully inadequate to justify much confidence. We are still without reliable data concerning the capacity of waters to maintain a stock of fish, as regards either population or species, and we are without complete information regarding many important environmental factors for all species.

The Requirements

While there are sufficient organizations to undertake an adequate program of research, they are, at least in the cases of the universities and the Ontario Research Foundation, badly handicapped by limited and obsolete facilities as well as by a shortage of personnel. To a large extent research on fisheries and wildlife has had to be relegated to a position of minor importance, to an uncertain and disjointed existence, with recurrent revivals when space, time, and money permitted. In such circumstances there can be little doubt that much of the value of the work accomplished was lost.

The immediate needs may be summarized as follows:

1. Provision of Personnel:
    - (a) The establishment of scholarships with a view to encouraging graduate work in the field of fisheries and wildlife.
    - (b) The institution of a policy of employment preference for scientifically trained personnel in the administration of these resources to offer further encouragement to students in these fields.
    - (c) The institution of a policy of employment preference for undergraduates in these fields in temporary summer appointments for purposes of administration.
2. Extension of Facilities and Staff:
    - (a) Queen's University—Further extension of the laboratory at Lake Opinicon and future extensions to cover work in Lake Ontario.
Research personnel.
    - (b) University of Western Ontario—Extension of present program in Lake Erie.
Research personnel.
    - (c) McMaster University—Additional facilities for investigations on the Dundas marshes and Lake Ontario.
Research personnel.
    - (d) University of Toronto—Laboratory with space far beyond what exists at present.
Research personnel.
    - (e) Departments—Additional facilities and personnel in the Provincial Parks and River Development Areas and extension of projects contemplated.
    - (f) Ontario Fisheries Research Laboratory.
Research personnel.
    - (g) Ontario Research Foundation—Extension to other fields than Parasitology.
    - (h) Royal Ontario Museum of Zoology.
Additional staff.

enlist the aid of the chemist and the geophysicist as well as that of the geologist. The current tools of geophysics are the comparatively crude ones of a science just becoming established, but a science which promises to be one of greater and greater value in mineral inventory work.

There are several metallurgical problems which merit immediate research. Some of these are as follows:

1. The better utilization of iron ores and fuels;
2. The recovery of apatite from crystalline limestone;
3. The discovery and recovery of radioactive and rare earth minerals;
4. The extraction of aluminum from the complex ores on Parry Island;
5. The greater development of the non-metallic (industrial) minerals;
6. The discovery of alternative sources of fuel supply;
7. The cataloguing and analysing of the results of previous research to make accessible information already in existence but now quite inaccessible.

The first of these problems, the better utilization of iron ores and fuels, seemed of sufficient urgency to justify immediate action. For that reason an investigation directed by the Ontario Research Foundation was initiated by the Commission. A second project, one concerning the manufacture and use in practice of mine hoisting ropes, was also instituted. While it, too, is directed by the Ontario Research Foundation, it is essentially a co-operative undertaking on the part of the Government, the Foundation, the mines, and the manufacturers of wire rope. It should be noted here that in both these projects close liaison is maintained with the Federal Department of Mines through representatives of the latter on each of the project committees.

Facilities for mining and metallurgical research seem reasonably adequate at the present time. The Federal Bureau of Mines is particularly well equipped to do research of a public, semi-public or private nature The Foundation is in a similar position. These laboratories can be supplemented by those of the various universities. The present policy of the Provincial Department of limiting its direct research efforts to the field of Geology, while sponsoring other projects using the facilities mentioned is a commendable one. The Geological Branch has rendered considerable service in the assessment of existing tools of geophysics, the inadequacy of which has seemingly handicapped it. It is still further handicapped by the multiplicity of methods used in the geological mapping by Provincial and Dominion services. Ontario might well give some leadership in the establishment of some uniformity so that existing information might be more readily accessible.

RECOMMENDED PROJECTS—MINES, MINERALS AND METALLURGICAL RESEARCH—1948-49

	Participating Agencies	Capital	Operating	Total
UNIVERSITY OF TORONTO		$	$	$
1. Geothermal Studies (A. D. Misener).	Ontario Department of Mines; Mining industries.	700.00	2,300.00	3,000.00
2. Magnetic Studies. (A. A. Brant).	Ontario Department of Mines; Mining industries.	1,000.00	2,000.00	3,000.00
3. Radioactive Studies. (J. T. Wilson)	Ontario Department of Mines; Mining industries.	450.00	2,550.00	3,000.00
4. X-ray Diffraction Research (M. A. Peacock)	Ontario Department of Mines.	3,870.00	3,197.00	7,067.00
		$ 6,020.00	$10,047.00	$16,067.00
QUEEN'S UNIVERSITY				
5. Spectrographic Research. (J. E. Hawley).	Bureau of Mines, Ottawa.	$15,000.00	$ 5,000.00	$20,000.00
ONTARIO RESEARCH FOUNDATION				
6. Wire Rope Project. (O. W. Ellis, I. A. Usher).	Ontario Department of Mines; Bureau of Mines, Ottawa; Mining industries.	4,250.00	23,200.00	27,450.00
7. Reduction of Ferrous Ores. (O. W. Ellis, P. E. Cavanagh)	Ontario Department of Mines; Bureau of Mines, Ottawa; Mining industries.	5,750.00	16,350.00	22,100.00
		$10,000.00	$39,550.00	$49,550.00
McMASTER UNIVERSITY				
8. Geochemical Studies (H. S. Armstrong).	....			$ 5,000.00
				$90,617.00

APPENDIX V.

FORESTRY

Committee:

Dean J. W. B. Sisam (Chairman)	Forestry, University of Toronto.
Prof. C. E. Atwood	Zoology, University of Toronto.
Mr. A. B. Baird	Dominion Parasite Laboratory, Belleville.
Dr. John E. Bier	Dominion Laboratory of Forest Pathology, Toronto.
Mr. W. Boyd Campbell	Pulp and Paper Research Institute of Canada.
Mr. G. G. Cosens	Kimberly-Clark Corporation Limited.
Mr. C. B. Davis	Abitibi Power and Paper Company Ltd.
(Substitutes: Mr. W. E. Willson	Abitibi Power and Paper Company Ltd.
and Mr. J. B. Mathews)	Abitibi Power and Paper Company Ltd.
Mr. W. A. Delahey	Great Lakes Paper Co.
Dr. G. H. Duff	Botany, University of Toronto.
Mr. T. L. Dunbar	Consultant.
Prof. R. O. Earl	Biology, Queen's University.
Mr. D. A. Gillies	Gillies Bros. & Co. Ltd.
Mr. J. H. Godden	Great Lakes Paper Company.
Dr. O. Holden	The Hydro-Electric Power Commission of Ontario.
Prof. R. C. Hosie	Forestry, University of Toronto.
Mr. R. N. Johnston	Ontario Dept. of Lands and Forests.
Maj.-Gen. H. Kennedy	Consulting Engineer.
Mr. A. Koroleff	Pulp and Paper Research Institute of Canada.
Mr. W. J. LeClair	Canadian Lumbermen's Association.
Mr. G. A. Ledingham	National Research Council Regional Laboratory, Saskatoon.
Mr. A. P. Leslie	Ontario Dept. of Lands and Forests.
Mr. D. A. Macdonald	Dominion Forest Service.
Mr. F. A. MacDougall	Ontario Dept. of Lands and Forests.
Dr. H. B. Marshall	Ontario Research Foundation.
Mr. T. A. McElhanney	Forest Products Laboratories, Ottawa.
Prof. R. R. McLaughlin	Chemical Engineering, University of Toronto.
Mr. C. R. Mills	Ontario Forest Industries Association.
Dr. M. L. Prebble	Forest Insect Laboratory, Sault Ste. Marie.
Mr. A. H. Richardson	Ontario Dept. of Planning and Development.
(Substitute: Mr. A. S. L. Barnes)	Ontario Dept. of Planning and Development.
Mr. K. O. Roos	Booth Lumber Limited.
Mr. S. J. Staniforth	Staniforth Lumber Co. Ltd.
Mr. G. H. Tomlinson, II	Howard Smith Paper Mills Limited.
Prof. J. O. Wilhelm	Ontario Research Commission.

Meetings:

February 20th, 1946	Ontario Research Foundation, Toronto.
September 26th, 1946	Parliament Buildings, Toronto.
November 25th, 1946	Parliament Buildings, Toronto.
March 6th, 1947	Chateau Laurier, Ottawa.
September 29th, 1947	Forest Insect Laboratory, Sault Ste. Marie.
November 26th, 1947	Parliament Buildings, Toronto.

Sub-Committees:

Waste Sulphite Liquor

Dr. H. B. Marshall (Chairman)	Ontario Research Foundation.
Dr. G. A. Adams	National Research Council.
Dr. F. Bender	Forest Products Laboratories, Ottawa.
Dr. W. Boyd Campbell	Pulp and Paper Research Institute of Canada.
Dr. G. A. Ledingham	National Research Council Regional Laboratory, Saskatoon.
Prof. R. R. McLaughlin	Chemical Engineering, University of Toronto.
Dr. G. H. Tomlinson, II	Howard Smith Paper Mills Limited.
Dean J. W. B. Sisam (ex officio)	Forestry, University of Toronto.
Prof. J. O. Wilhelm (ex officio)	Ontario Research Commission.

Sawmilling Practice

Dean J. W. B. Sisam (Chairman)	Forestry, University of Toronto.
Mr. W. J. LeClair	Canadian Lumbermen's Association.
Mr. T. A. McElhanney	Forest Products Laboratories, Ottawa.
Mr. K. O. Roos	Booth Lumber Limited.
Prof. J. O. Wilhelm (ex officio)	Ontario Research Commission.

Waste Slabwood Utilization

Dean J. W. B. Sisam (Chairman)	Forestry, University of Toronto.
Mr. W. J. LeClair	Canadian Lumbermen's Association.
Mr. T. A. McElhanney	Forest Products Laboratories, Ottawa.
Prof. J. O. Wilhelm (ex officio)	Ontario Research Commission.

Biological Forestry

Prof. C. E. Atwood	Zoology, University of Toronto.
Mr. A. B. Baird	Dominion Parasite Laboratory, Belleville.
Mr. G. G. Cosens	Kimberly-Clark Corporation of Canada, Limited.
Mr. W. A. Delahey	Great Lakes Paper Co.
Dr. G. H. Duff	Botany, University of Toronto.
Prof. R. O. Earl	Biology, Queen's University.
Prof. R. C. Hosie	Forestry, University of Toronto.
Mr. R. N. Johnston	Ontario Dept. of Lands and Forests.

Maj.-Gen. H. Kennedy	Consulting Engineer.
Mr. A. P. Leslie	Ontario Dept. of Lands and Forests.
Mr. D. A. Macdonald	Dominion Forest Service.
Mr. C. R. Mills	Ontario Forest Industries Association.
Mr. K. O. Roos	Booth Lumber Limited.
Dean J. W. B. Sisam	Forestry, University of Toronto.
Mr. W. E. Willson	Abitibi Power and Paper Company Ltd.
Prof. J. O. Wilhelm (ex officio)	Ontario Research Commission.

The direct and indirect results of forest depletion are too well known to require enumeration here. Scattered throughout the Province are river valleys which are depressing reminders of those results. Depletion can be prevented only by positive policies of conservation—policies which are timeless in viewpoint and which are backed by sufficient capital for long-term investment and by sufficient authority to control effectively all those who seek to exploit the forests. The Provincial Government has the responsibility of instituting and maintaining such policies.

Since building activity is so sensitive to business conditions the lumbering industry is and always has been subject to wide fluctuations. This sensitiveness is of considerable importance to conservation for it implies a rapid turnover in the firms participating in the industry. The very insecurity of the enterprise has encouraged ruthless exploitation in times of boom while in times of depression the disappearance of firms or the need for retrenchment has made for neglect. The present preponderance of interest in pulp and paper points to a happier situation. High fixed capital costs mean that participating firms have a considerable stake in sound management. As a result, public and private interests are more compatible. But private conservation measures cannot be completely adequate since conservation policies must be formulated in terms of whole drainage basins.

It should be unnecessary to review past and present government activities in forest protection and forest management. Much has been done and much is being done. But even more remains to be done. The task is no longer one of merely protecting the gifts of Nature. Her beneficence must be fortified by direct assistance, and piecemeal policies must be supplanted by overall management.

Such assistance implies the existence of adequate forest knowledge and the fullest possible use of that knowledge. But there are many gaps in the information required and many gaps in the application of what is already known. One major deficiency is the lack of an adequate forest inventory—an inventory which must include not only complete data regarding existing stands but information regarding the rates of growth and the rates of depletion. A prerequisite to intelligent management of our forest resources is a reliable inventory of our forest assets.

The gaps in existing forest knowledge can be filled only by research. And, to a lesser extent, research is required to facilitate the best application of the information presently available. In neither case can forestry research be completely divorced from that in related fields. It must be correlated to the work being done in Soils, Agriculture, and Fisheries and Wildlife. It should look to Aerial Photography, Physiography and Climatology for assistance and it must not ignore the effects of air and water pollution.

The task then is one calling for the co-ordination of many talents over a considerable period of time. With this in view the following recommendations are submitted as a guide for correlation of effort in the setting up of specific research programs:

1. **The Problem of Co-ordination and Continuity in Personnel and Administration**
    (a) The establishment of a permanent central body to
        1. which representations may be made concerning researches in forestry and the related fields;
        2. assess and correlate the research projects of these groups;
        3. advise the Government as to the financial assistance required to implement the research program devised;
        4. encourage the distribution of all available information;
        5. assist in the provision of the personnel required.

    (b) The encouragement of undergraduate and graduate studies and related fields by
        1. the establishment of a system of scholarships and other aids of adequate value to retain the best research personnel available;
        2. the continuation by the Provincial Department of Lands and Forests of the policy of recruiting departmental personnel from among those having university training in Forestry and related fields;
        3. the continuation of the policy of summer employment in summer forest projects for graduate and undergraduate students;
        4. the extension of staff and facilities for graduate work in the Faculty of Forestry, University of Toronto.

    (c) The establishment as soon as possible of an ecological centre.

2. **Research Program**
    (a) Forest Ecology.

    The correlation, with a view to securing a comprehensive land-use classification, of all the data obtained by
        1. completion of an adequate Provincial soils survey;
        2. extension of the studies in Physiography and Climatology;
        3. studies on the microbiology of forest soils.

    (b) Forest Management.
        1. Inventory:
            (i) A comprehensive survey of existing forest resources;
            (ii) Investigation of the rates of growth under varying conditions of tree distribution and age of stands, both natural and controlled;

    - (iii) Investigation of techniques of aerial photography and associated inventory methods.
  - 2. Regeneration:
    - (i) Investigation of regeneration in (a) burnt-over and cut-over areas (b) swamp areas;
    - (ii) Studies of the silvicultural characteristics of the native tree species in order of commercial importance;
    - (iii) Genetical studies of native and valuable exotic species with the object of improving silvicultural characteristics;
    - (iv) Design of more efficient tree planting and general nursery machinery;
    - (v) The development of artificial seeding techniques and equipment.
  - 3. Applied Forestry:
    - (i) Investigations of farm woodlot management;
    - (ii) Establishment of management areas to investigate and demonstrate the value of various silvicultural practices;
    - (iii) Logging studies on various forest types to determine the best methods of removing the forest crop in relation to the cost of (a) delivering wood to the mill and (b) restoring the forest crop.
- (c) Forest Protection.
  - 1. Biological:
    - (i) Investigation of losses from and long-term effects of insects, animals and disease;
    - (ii) Methods of control of insects and disease;
    - (iii) The effect of different cutting methods on (a) fire hazards, and (b) biology of the forest.
  - 2. Fire:
    - (i) The development and design of specialized equipment for forest fire detection and suppression;
    - (ii) Investigation of accurate rating for fire hazards;
    - (iii) Investigation of fire weather forecasting.
- (d) The Problem of Utilization.
  - 1. Present Wastages:
    - (i) Investigations of existing wood wastes to secure profitable uses for
      - (a) logging wastes;
      - (b) milling and manufacturing wastes.

(ii) Better utilization of materials, for example,

- (a) more efficient manufacturing methods;
- (b) complete fabrication of existing products;
- (c) utilization of present non-commercial tree species;
- (d) development of a wider range of valuable forest products.

(e) Forest Hygiene

(i) The study of air and water pollution and their effect on the forest and on the community.

RECOMMENDED PROJECTS—FORESTRY RESEARCH—1948-49

Title	Participating Agencies	Capital	Operating	Total
QUEEN'S UNIVERSITY BIOLOGICAL STATION		$	$	$
1. Forest Regeneration and Woodlot Management. (R. O. Earl).	Queen's University.	315.00	1,185.00	1,500.00
2. Biology of the Basswood Leaf Miner. (A. S. West).	Queen's University.		690.00	690.00
3. Insects as Vectors of Bacteria. (A.S. West).	Queen's University.		2,720.00	2,720.00
4. Forest Insect Investigations. (A. S. West).	Queen's University.		900.00	900.00
		$315.00	$5,495.00	$5,810.00
UNIVERSITY OF TORONTO				
5. Sawmill practice research. (W. G. McIntosh).	Department of Lands and Forests, Ontario Forest Products Laboratory, Ottawa.		10,000.00	10,000.00
6. Forest Tree Mycorrhiza. (G. H. Duff).	Department of Lands and Forests, Ont.		900.00	900.00
7. Regeneration Studies.	Department of Lands and Forests, Ont.; Forest Products Laboratory, Ottawa.		10,000.00	10,000.00
			$20,900.00	$20,000.00
ONTARIO RESEARCH FOUNDATION				
8. Waste Sulphite Liquor Utilization (H. B. Marshall).	....		$ 1,200.00	$ 1,200.00
9. Wood Chemistry.	....	2,000.00	18,000.00	20,000.00
		$2,000.00	$19,200.00	$21,200.00
Unclassified as Yet.	....			2,090.00
				$50,000.00

RECOMMENDED PROJECTS—FISHERIES AND WILDLIFE RESEARCH—1948-49

Title	Participating Agencies	Capital	Operating	Total
McMASTER UNIVERSITY				
1. The Ecology of the Muskrat in the Dundas Marsh and Surrounding Territory. (A. E. Warren).	McMaster; Royal Botanical Gardens; Dept. of Lands and Forests; Hamilton Angling and Hunting Assn.; Royal Ontario Museum.	$ 450.00	$ 1,645.00	$ 2,095.00
2. Limnological Investigation of the Dundas Marsh and Adjoining Waters. (A. E. Warren).	McMaster; Royal Botanical Gardens; Ontario Fisheries Research Laboratory; Hamilton Dept. of Health.	298.00	1,665.00	1,963.00
3. An Ecological Survey of the Birds of Wentworth County, with particular reference to Water-Fowl. (A. E. Warren).	McMaster; Royal Botanical Gardens; Hamilton Angling and Hunting Assn.; Hamilton Nature Club; The Federation of Ontario Naturalists; Dept. of Lands and Forests; Dept. of Mines and Resources; Royal Ontario Museum of Zoology.	430.00	965.00	1,395.00
4. The Ecology of the Fishes in the Dundas Marsh. (A. E. Warren).	McMaster; Royal Botanical Gardens; Ontario Fisheries Research Laboratory; Ont. Dept. of Lands and Forests; Hamilton Angling and Hunting Assn.; Hamilton Harbour Commission; Royal Ontario Museum of Zoology.	492.00	1,965.00	2,457.00
5. The Mosquito Problem and its Biological Control. (A. E. Warren).	McMaster; Royal Botanical Gardens; Ont. Dept. of Lands and Forests; Hamilton Dept. of Health; The Desplaines Valley Mosquito Abatement District, Lyons, Illinois.	650.00	1,790.00	2,440.00
6. Life History of the Carp. (A. E. Warren).	McMaster; Royal Botanical Gardens; Dept. of Lands and Forests; Ontario Fisheries Research Laboratory; Royal Ontario Museum of Zoology.	310.00	805.00	1,115.00
7. Study of Aquatic Insects of the Dundas Marsh.	McMaster; Royal Botanical Gardens.	357.00	1,795.00	2,152.00
8. The Mammalian Fauna of Wentworth County. (A. E. Warren; L. A. Prince; H. Eydt; M. Inksetter).	McMaster; Royal Botanical Gardens; Hamilton Angling and Hunting Assn.; The Hamilton Nature Club; Offices of the County Clerk and Local Townships; Royal Ontario Museum of Zoology.	350.00	2,335.00	2,685.00
	Forward	$3,337.00	$12,965.00	$16,302.00

RECOMMENDED PROJECTS—FISHERIES AND WILDLIFE RESEARCH—1948-49—(Continued)

Title	Participating Agencies	Capital	Operating	Total
McMASTER UNIVERSITY—(Cont'd.)	Brought Forward	$3,337.00	$12,965.00	$16,302.00
Director's travel and other expenses.			200.00	200.00
Library Purchases.		100.00		100.00
9. Ecological Investigations on Soil Micro-organisms. (J. J. Miller; N. W. Radforth).	McMaster; Royal Botanical Gardens.	500.00	2,000.00	2,500.00
10. Soil Resources in Relation to Microfloral Studies. (N. W. Radforth; L. Laking).	McMaster; Royal Botanical Gardens.	100.00	600.00	700.00
11. Floristic Survey of the Eastern Portion of the North Shore of Lake Erie, including Rondeau Park and Turkey Point. (N. W. Radforth; L. O. Gaiser).	McMaster.	500.00	3,200.00	3,700.00
12. Taxonomic and Ecological Survey of Plant Life in Cootes' Paradise Area of Royal Botanical Gardens. (N. W. Radforth).	McMaster; Royal Botanical Gardens.	500.00	1,200.00	1,700.00
		$5,037.00	$20,165.00	$25,202.00
QUEEN'S UNIVERSITY BIOLOGICAL STATION				
13. Migration, Rate of Growth and Population Studies on the Bass. (H. W. Curran).	Queen's University.	850.00	960.00	1,810.00
14. Creel Census. (H. W. Curran).	Queen's University.	50.00	650.00	700.00
15. Experimental Verification of Natural Hybridization Between Species of Sunfishes. (H. W. Curran).	Queen's University.	500.00	1,030.00	1,530.00
	Forward	$1,400.00	$2,640.00	$4,040.00

RECOMMENDED PROJECTS—FISHERIES AND WILDLIFE RESEARCH—1948-49—(Continued)

Title	Participating Agencies	Capital	Operating	Total
QUEEN'S UNIVERSITY BIOLOGICAL STATION—(Cont'd.)	Brought Forward	$1,400.00	$2,640.00	$4,040.00
16. Aquatic Invertebrates as a Source of Food for Fish. (H. W. Curran).	Queen's University.	100.00	756.00	856.00
17. Limnological Survey of Lake Opinicon. (H. W. Curran).	Queen's University.	200.00	1,450.00	1,650.00
Publishing of Reports.			300.00	300.00
Clerical Assistance.			320.00	320.00
Purchase of Books.		150.00		150.00
		$1,850.00	$5,466.00	$7,316.00
UNIVERSITY OF WESTERN ONTARIO				
18. Study of Ecological Factors of Lake Erie most likely to have influence on fish population.				
Equipment		5,950.00		5,950.00
Maintenance			3,110.00	3,110.00
Salaries			4,340.00	4,340.00
Miscellaneous			3,600.00	3,600.00
		$5,950.00	$11,050.00	$17,000.00
UNIVERSITY OF TORONTO				
19. Calorific Requirements in Lake Trout. (F. E. J. Fry).	Ontario Fisheries Research Laboratory; Dept. of Lands and Forests.	200.00	800.00	1,000.00
20. Movement of Lake Trout in Relation to Temperature. (F. E. J. Fry).	Ontario Fisheries Research Laboratory; Dept. of Lands and Forests.	200.00	800.00	1,000.00
21. Quantitative Methods of Plankton Collection. (R. R. Langford).	Ontario Fisheries Research Laboratory.		1,350.00	1,350.00
22. Relation of Dissolved Minerals to Rate of Growth and Reproduction of Algae. (R. R. Langford; F. E. J. Fry).	Ontario Fisheries Research Laboratory.	1,000.00	2,350.00	3,350.00
	Forward	$1,400.00	$5,300.00	$6,700.00

RECOMMENDED PROJECTS—FISHERIES AND WILDLIFE RESEARCH—1948-49—(Continued)

Title	Participating Agencies	Capital	Operating	Total
UNIVERSITY OF TORONTO—(Cont'd.)	Brought Forward	$1,400.00	$5,300.00	$6,700.00
23. Penetration of Light into Water. (R. R. Langford).	Ontario Fisheries Research Laboratory.	500.00	1,350.00	1,850.00
24. Supply and Fate of Chemical Nutrients in Lakes and the Chemical Analyses of Organisms. (R. R. Langford; F. E. J. Fry).	Ontario Fisheries Research Laboratory; Dept. of Lands and Forests.	600.00	1,050.00	1,650.00
25. Bibliographic Research. (F. E. J. Fry; R. R. Langford; F. P. Ide)	Ontario Fisheries Research Laboratory.		2,600.00	2,600.00
Organization of Ontario. Fisheries Research Laboratory Library.	....		2,000.00	2,000.00
26. Lethal Limits of Temperature in Stream Insects with Special Reference to their Thermal History. (F. P. Ide; F. E. J. Fry).	Ontario Fisheries Research Laboratory.	100.00	1,000.00	1,100.00
27. Measurement of Environmental Factors such as humidity, Temperature, Light under Terrestrial Conditions. (A. F. Coventry).	....	300.00	1,100.00	1,400.00
28. Toxicity Problem	....			3,350.00
		$2,900.00	$14,400.00	$20,650.00

RECOMMENDED PROJECTS—FISHERIES AND WILDLIFE RESEARCH—1948-49—(Continued)

Title	Participating Agencies	Capital	Operating	Total
ROYAL ONTARIO MUSEUM OF ZOOLOGY				
29. Natural History Survey of Cape Henrietta Maria. (J. R. Dymond).		1,000.00	5,400.00	6,400.00
30. Wildlife Food Habits Research. (J. R. Dymond).		500.00	3,250.00	3,750.00
31. Reference Collection of Animal Parasites. (J. R. Dymond).			2,500.00	2,500.00
32. Compilation of Animal Population Records. (J. R. Dymond).			500.00	500.00
33. Lake Erie Fish Populations			3,000.00	3,000.00
34. Lake Herrings of the Great Lakes.			200.00	200.00
		$1,500.00	$14,850.00	$16,350.00
ONTARIO RESEARCH FOUNDATION				
35. Parasitology.			26,975.00	26,975.00
			$26,975.00	$26,975.00
	TOTAL			$113,493.00

APPENDIX II.

SOILS

Committee:

Dr. H. B. Speakman (Chairman)	Ontario Research Foundation.
Mr. L. J. Chapman (Secretary)	Ontario Research Foundation.
Mr. G. A. Hills	Ontario Dept. of Lands and Forests.
Mr. R. N. Johnston	Ontario Dept. of Lands and Forests.
Dr. A. Leahey	Central Experimental Farm, Ottawa.
Prof. F. F. Morwick	Chemistry, Ontario Agricultural College.
Mr. E. F. Palmer	Horticultural Experiment Station, Vineland.
Mr. F. L. Peckover	National Research Council.
Prof. D. F. Putnam	Geography, University of Toronto.
Mr. A. H. Richardson	Ontario Dept. of Planning and Development.
Prof. G. N. Ruhnke	Soils, Ontario Agricultural College.
Prof. W. L. Sagar	Civil Engineering, University of Toronto.
Mr. J. Walter	Ontario Dept. of Highways.
Prof. J. O. Wilhelm	Ontario Research Commission.

Meetings:

November 2nd, 1945	Ontario Research Foundation, Toronto.
April 4th, 1946	Ontario Research Foundation, Toronto.
July 3rd, 1946	Ontario Agricultural College, Guelph.
Sept. 23rd, 1946	Horticultural Experimental Station, Vineland.
May 22nd, 1947	Ontario Research Foundation, Toronto.
September 10th, 1947	Municipal Building, Cochrane.

SOILS RESEARCH IN ONTARIO

Interested Groups

Perhaps in no other field is there a greater need for a co-ordinated long-term program than in that of soils. Soils are of vital concern to Agriculture, and that concern is reflected in the activities of the Dominion and Provincial Departments of Agriculture. Soils data are key factors, and are recognized as such, in the work of the Ontario Department of Lands and Forests, the Ontario Department of Planning and Development, and the Ontario Department of Highways. Information on soils is of assistance to the Department of Mines and to those charged with the administration of game and fisheries. The work of the Ontario Research Foundation on Physiography and Climatology would be much more useful in an intelligent land-use program if correlated with an accurate and complete study of the soils in the Province. Such a study would be of tremendous value to educational groups in the teaching of geography. The importance of soils in the general economy is further attested by the recent setting up of the Associate Committee on Soil and Snow Mechanics within the National Research Council.

That each of the interested groups has done valuable work in this field is a matter of record; that there has been little, if any, duplication is rather amazing. This situation is due, no doubt, to the splendid co-operation which has existed. There is every reason to expect that the various groups would continue the present practice of mutual help and understanding, but, with the growing need for the immediate extension of our knowledge of soils throughout the whole Province, there can be no doubt that a program, planned and carried out by all, would meet the needs of each not only much more rapidly, but at considerable financial saving over a period of years.

It is apparent, then, that there is every opportunity for mutual help and co-ordinated effort on the part of the various groups concerned with the problem of soils. How best this can be promoted remains to be considered. Recommendations to this end were prepared by the Advisory Committee on Soils Research and are listed here.

Recommendations

For Co-ordination and Direction of Soils Research:

1. The establishment, on a permanent basis, of a central organization to co-ordinate a general program of research for the Province and to advise the Government thereon.
2. The establishment, by this organization, of an advisory committee on soils, its purpose being:
    - (a) to submit plans for the co-ordination of all soils research in the Province;
    - (b) to submit estimates of the cost of the suggested program;
    - (c) to correlate the data arising out of this research and to submit the results to the central organization;
    - (d) to advise the central organization on all matters pertaining to soils research, including such considerations as research personnel, scholarships, publications, etc.

General Program of Projects

1. The establishment of a greater number of scholarships to attract students to the field of Soils, with a view to correcting the present deficiency of qualified personnel in this field;
2. Renewal and extension of the program of Soils Survey, with a view to the complete mapping of the Province at the earliest date possible and to recognizing the particular urgency of the study of the soils in the northern clay belt;
3. Assistance to permit an expansion of activities in the fields of Climatology and Physiography, and the correlation of existing data in these studies with the data obtained in Soils Surveys;
4. The expansion of the program of the mapping and land-use direction of individual farms;

5. The encouragement of the co-operative study of fertility requirements and crop adaptation of various soil types;
6. Extension of the work on forest fixation, soils colloids and soil fertility;
7. Extension and encouragement of the work of river-valley development;
8. Provision for the inauguration of a program of waste-land reclamation and forest regeneration based on accurate information regarding the soils in the areas concerned.

Special Projects

The projects listed below have been selected because they involve fundamental problems bearing upon ultimate land-use, and because, at the present time, no systematic large scale work is being done on any one of them.

Some of these projects offer an excellent medium for co-operative research on the part of two or more institutions or departments, and can be broken down readily into sub-projects suitable for graduate students in several fields.

1. Physico-Chemical properties of Ontario soils affecting the erodability of important soil types;
2. A study of the physical, chemical and mineralogical character of the clays in the major soil types;
3. A study of water-borne sediments and soil nutrients in rivers as a measure of soil erosion losses from a watershed;
4. The rate of infiltration of rainfall into soils as related to run-off;
5. The distribution of cobalt, manganese and iodine in soils and crop plants in relation to the incidence of deficiency diseases in livestock;
6. An investigation of the sulphur content of the precipitation in various localities in relation to additions of sulphur to the soil.

RECOMMENDED PROJECTS—SOILS RESEARCH—1948-49

Title	Agency	Capital	Operating	Total
		$	$	$
Physiography	Ontario Research Foundation	1,300.00	22,425.00	23,725.00

APPENDIX III.

AGRICULTURE

Committee:

Mr. C. F. Luckham (Chairman)	Norfolk Specialty Farms.
Mr. Ken Betzner	Farmer, Waterloo.
Dr. H. D. Branion	Animal Nutrition, Ontario Agricultural College.
Prof. C. G. E. Downing	Agricultural Engineering, Ontario Agricultural College.
Prof. E. H. Garrard	Bacteriology, Ontario Agricultural College.
Dr. E. S. Hopkins	Central Experimental Farm, Ottawa.
Mr. Lawrence Kerr	Farmer, Chatham.
Prof. R. G. Knox	Animal Husbandry, Ontario Agricultural College.
Dr. A. L. MacNabb	Ontario Veterinary College.
Mr. M. H. McCurdy	Cockshutt Plow Company Limited.
Dr. G. P. McRostie	Field Husbandry, Ontario Agricultural College.
Dr. K. W. Neatby	Science Service, Dominion Dept. of Agriculture.
Mr. E. F. Palmer	Horticultural Experiment Station, Vineland.
Mr. A. Pitt	Massey-Harris Company, Limited.
Mr. F. W. Presant	Feed Division, Toronto Elevators Limited.
Prof. G. N. Ruhnke	Soils, Ontario Agricultural College.
Mr. G. A. Schell	Canada Packers Limited.
Mr. J. C. Steckley	Western Ontario Experimental Farm, Ridgetown.
Mr. W. G. Toner	Royal Dairy Products, Charles Yeates & Co. Ltd.
Mr. S. B. Trainer	Silverwood Dairies, Limited.
Mr. George Wilson	Ontario Dept. of Agriculture.
Mr. S. M. Young	International Harvester Company of Canada Ltd.
Prof. J. O. Wilhelm	Ontario Research Commission.

Meetings:

July 9th and 10th, 1946	Ontario Agricultural College, Guelph.
September 9th, 1946	Ontario Agricultural College, Guelph.
December 16th, 1946	Ontario Agricultural College, Guelph.

Sub-Committees:

Co-ordination

Dr. H. D. Branion (Chairman)	Animal Nutrition, Ontario Agricultural College.

Prof. C. G. E. Downing	Agricultural Engineering, Ontario Agricultural College.
Mr. C. F. Luckham	Norfolk Specialty Farms, St. Williams.
Mr. E. F. Palmer	Horticultural Experiment Station, Vineland.
Mr. George Wilson	Ontario Dept. of Agriculture.
Dr. E. S. Hopkins (advisory)	Central Experimental Farm, Ottawa.
Dr. K. W. Neatby (advisory)	Science Service, Dominion Dept. of Agriculture.

The report upon Agriculture requires a special preface. To understand clearly the present state of research in this field one must not fail to note that it is somewhat different from that obtaining in any of the other fields that have to do with natural resources. In Agriculture the need for a steadily expanding program of research is just as urgent as it is elsewhere, but the efforts of the workers to carry out such a program have been impeded by a peculiar combination of circumstances.

It is in this fact that one may see the reason why the Committee on Agriculture offers in this report no definite recommendations for an extended scheme of research. The Committee realizes the utter futility of making any recommendation of this kind at a time when it is obvious that the Ontario Agricultural College cannot assume an increased volume of work. The quality of the work done at the College and the competency of the staff are of the highest. But the unprecedented load of teaching now carried by the staff and their willing response to countless requests for extension and other services, are spreading out their store of energies so thin that the program of research they are craving to undertake is of necessity suffering. The effect of the paucity of research results is not felt keenly now, but in the event of a general economic recession the lack of new scientific knowledge of use to agriculture would be disastrous.

In the opinion of the Commission the situation constitutes a real problem which calls for an immediate endeavour to co-ordinate afresh the efforts of all the agencies concerned. The approach to the task should not be made in the spirit of adverse criticism of present effort. On the contrary, it should be co-operative and directed to working out without delay a plan whereby shortages of personnel in two departments in particular—extension and teaching—may be removed. Such a result would afford the competent research workers the freedom to devote a generous measure of their time, skill and energies to the great task of research for which they have been trained.

Beginnings of Research

Immediately after Confederation the Dominion Parliament embarked on a regular program of agricultural service, and within twenty years had set up numerous divisions, each charged with the responsibility for research and extension in a particular field. During the same period provincial programs of research and extension were developing just as rapidly and just as efficiently. For the most part, the provinces worked through the provincial universities, colleges and foundations, through agricultural representatives and through producers' organizations or individual producers. The work accomplished over the years has won for provincial Departments of Agriculture and their associates prestige and prominence equivalent to that enjoyed in the industry by the Dominion Department of Agriculture, and, while it is impossible to enumerate the contributions made, it should be pointed out that those contributions were particularly important in the fields of soils problems, crop production, animal production and the marketing of farm products.

Special Feature of Agricultural Research

The notable feature in agricultural research, a feature which sets it more or less apart from research in other fields, is that activity commonly known as extension work, which must be an integral part of practically every project. Since knowledge gained in the laboratory, the college plot or the experimental farm is of value only when made known to the "practical farmer", and since the vast majority of these are rugged individualists, the agencies interested in agricultural welfare and progress must carry on their extension work constantly.

Types of Research

Agricultural research, to be worthwhile, must cover the basic needs of production and of utilization. Research on production is well-established, and existing facilities could be expanded to meet the needs in this field, which includes soils surveys and proper land-use, plant production and improvement and animal production and improvement, each with its host of related topics and its extension program.

Far less attention has been paid to utilization. Of late years the needs in this field have been recognized and some start has been made on an overall program. It is recognized that the Dominion Government has a primary responsibility in this field, and is much better-equipped to promote the proposed campaign, but considerable contribution might be made by the Province. The importance to any industry of the utilization of its products requires no elaboration, and since agricultural production represents the work of hundreds of thousands of individuals, research leading to the maintenance of markets for that production must, of necessity, be a public responsibility. That research, which must be a major effort, includes the whole problem of markets with all the ramifications of world-trade problems, facilities for marketing, storage, transportation, processing, industrial utilization of farm products and nutrition. It includes, as well, research on land-settlement, farm credits, stabilized prices, farm labour, together with consideration of farm amenities and cultural activities. Agriculture, to be permanently progressive and remuneratively attractive, must be efficiently productive in regard to both quality and quantity of its products. It follows, surely, that agricultural research must have continuity and must be attractive to qualified personnel.

RECOMMENDED PROJECTS—AGRICULTURAL RESEARCH—1948-49

Title	Agency	Capital	Operating	Total
		$	$	$
Industrial Utilization of Agricultural Products.	Ontario Research Foundation	2,000.00	18,000.00	20,000.00

APPENDIX IV.

MINES, MINERALS AND METALLURGY

Committee:

Mr. N. F. Parkinson (Chairman)	Ontario Mining Association.
Prof. H. S. Armstrong	Geology, McMaster University.
Prof. E. L. Bruce	Research Geology, Queen's University.
Prof. O. A. Carson	Metallurgy, Queen's University.
Dr. O. W. Ellis	Ontario Research Foundation.
Dr. C. S. Evans	Union Gas Company of Canada, Ltd.
Dr. G. S. Farnham	The International Nickel Company of Canada Ltd.
Dr. D. L. H. Forbes	The Teck-Hughes Gold Mines, Ltd.
Mr. T. W. Hardy	Climax Molybdenum Company.
Prof. J. E. Hawley	Mineralogy, Queen's University.
Prof. L. M. Pidgeon	Metallurgical Engineering, University of Toronto.
Prof. G. H. Reavely	Geology and Geography, University of Western Ontario.
Mr. H. C. Rickaby	Ontario Dept. of Mines.
Mr. R. H. Rimmer	Aluminium Laboratories Ltd.
Mr. W. Samuel	Steep Rock Iron Mines Ltd.
Mr. G. M. Thomson	General Engineering Company of Canada.
Mr. W. B. Timm	Dominion Dept. of Mines and Resources.
Dr. C. R. Whittemore	Deloro Smelting & Refining Co. Ltd.
Dr. G. E. Willey	Algoma Steel Corporation, Ltd.
Prof. C. G. Williams	Mining Engineering, University of Toronto.
Prof. J. T. Wilson	Physics, University of Toronto.
Mr. R. B. Young	The Hydro-Electric Power Commission of Ontario.
Prof. J. O. Wilhelm	Ontario Research Commission.

Meetings:

September 12th, 1946	Parliament Buildings, Toronto.
November 15th, 1946	Parliament Buildings, Toronto.
May 28th, 1947	Parliament Buildings, Toronto.
November 21st, 1947	Parliament Buildings, Toronto.

Sub-Committees:

Ferrous Metallurgy

Dr. O. W. Ellis (Chairman)	Ontario Research Foundation.
Mr. P. E. Cavanagh (Secretary)	Ontario Research Foundation.
Mr. T. W. Hardy	Climax Molybdenum Company.
Mr. F. A. Loosley	Dominion Foundries and Steel Ltd.
Mr. W. Samuel	Steep Rock Iron Mines, Ltd.

Mr. R. J. Traill	Dominion Dept. of Mines and Resources.
Mr. D. G. Watt	The Hydro-Electric Power Commission of Ontario.
Dr. G. E. Willey	Algoma Steel Corporation, Ltd.
Mr. R. B. Young	The Hydro-Electric Power Commission of Ontario.

Wire Rope

Dr. O. W. Ellis (Chairman)	Ontario Research Foundation.
Mr. I. A. Usher (Secretary)	Ontario Research Foundation.
Mr. N. B. Brown	Dominion Dept. of Mines and Resources.
Mr. R. E. Dye	Dome Mines Ltd.
Mr. A. C. Halferdahl	National Research Council.
Mr. R. Healey	Wright-Hargreaves Mines Ltd.
Mr. D. T. Morris	Canada Wire & Cable Co. Ltd.
Mr. J. G. Morrow	Steel Company of Canada Ltd.
Mr. R. Parker	International Nickel Co. of Canada, Ltd.
Mr. N. F. Parkinson	Ontario Mining Association.
Mr. R. S. Segsworth	General Engineering Co. (Canada) Ltd.
Mr. D. G. Sinclair	Ontario Department of Mines.
Mr. L. W. Sproule	Imperial Oil Limited.
Mr. R. B. Young	The Hydro-Electric Power Commission of Ontario.

Both the Federal and the Provincial Governments have long recognized a considerable responsibility for the encouragement of the mining and metallurgical industries.[1] The importance of these industries in the economy of Ontario[2] makes their stability a matter of major concern to Provincial authorities, not only from the standpoint of social welfare but from that of revenue. And ownership of the mineral resources imposes on the Province the primary responsibility for their careful utilization.

There are two essentials for continuing stability in these industries. Since mineral resources are irreproducible they should be exploited with the minimum of waste, and since all properties must ultimately become exhausted there must be a continuous and systematic search for new ore bodies. Obviously the processing of ores currently being raised will receive the most careful scrutiny by those working with them. But the task of an inventory of untapped ore bodies—whether untapped because of complexity of ores or because they are still undiscovered—must be undertaken by the Government for obvious reasons.

To both these ends—more efficient recovery and a reliable inventory—research is necessary. Methods of processing of ores currently unprofitable must be sought. A complete inventory will be possible only through the discovery of new prospecting tools. To be successful today prospecting must

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[1] For a complete statement of the work done by governments to 1933, see: Federal: Canada, Department of Mines, 1933.

Provincial (Ontario): The Mining Laws of Ontario and the Department of Mines, (T. W. Fisher, 1933).

[2] See figures submitted in the Report of the Royal Ontario Mining Commission, 1944.

ONTARIO

THIRD

ANNUAL REPORT

THE

LIQUOR AUTHORITY CONTROL BOARD OF ONTARIO

From April 1st, 1946
To December 31st, 1946

Sessional No. 49

Printed and Published by Baptist Johnston
Printer to the King's Most Excellent Majesty
1948

Toronto 2, Ontario,

March 23rd, 1948

TO HIS HONOUR, THE LIEUTENANT GOVERNOR
IN COUNCIL

The undersigned has the honour to transmit the Third Annual Report of The Liquor Authority Control Board of Ontario for the period April 1st, 1946, to December 31st, 1946.

Respectfully submitted,

L. E. BLACKWELL,

Attorney-General

THE LIQUOR AUTHORITY CONTROL BOARD OF ONTARIO

454 University Avenue,
Toronto 2, Ontario,
March 22nd, 1948

To THE HONOURABLE LESLIE E. BLACKWELL, K.C.,
Attorney-General of Ontario,
Parliament Buildings, Toronto 5, Ontario.

SIR,—

Herewith I submit the Third Annual Report of The Liquor Authority Control Board of Ontario which covers a period of nine months, April 1st, 1946 to December 31st, 1946. (On January 1st, 1947, the Liquor Licence Act came into force.)

The Members of the Board were: Judge W. T. Robb, Chairman; William T. Nugent, Vice-Chairman; and John Franklin White.

The Authority Districts throughout the Province numbered fourteen made up as follows:

DISTRICT NUMBER	COMPRISING	DISTRICT CENTRE
1	Counties of Elgin (except Vienna), Essex, Kent and Lambton	WINDSOR
2	Counties of Bruce, Grey, Huron, Perth, Waterloo and Wellington	KITCHENER
3	Counties of Middlesex and Oxford	LONDON
4	Counties of Brant, Haldimand, Lincoln, Norfolk and Welland (and Vienna only in Elgin County)	ST. CATHARINES
5	Counties of Wentworth and Halton	HAMILTON
6	County of York	TORONTO
7	Counties of Durham, Ontario, Peterborough, Victoria and District of Haliburton	PETERBOROUGH
8	Counties of Dufferin, Peel, Simcoe and Districts of Muskoka and Parry Sound	BARRIE
9	Counties of Hastings, Lennox, Northumberland and Prince Edward	BELLEVILLE

10	Counties of Addington, Dundas, Frontenac, Glengarry, Grenville, Leeds and Stormont	BROCKVILLE
11	Counties of Carleton, Lanark, Prescott, Renfrew and Russell	OTTAWA
12	Districts of Kenora, Rainy River and Thunder Bay	FORT WILLIAM
13	Districts of Algoma, Manitoulin and Sudbury	SAULT STE. MARIE
14	Districts of Cochrane, Nipissing and Temiskaming	KIRKLAND LAKE

During the aforesaid period of nine months the Board held the following meetings:

Annual Meetings — at District Centres	13
Special Meetings — at District Centres	13
Special Meetings — at Head Office, Toronto	36

The Board employed 25 inspectors in the fourteen Districts. Their duties include periodical visits to each licensed premises. The district inspectors also make unscheduled visits to each licensed establishment and the Assistant Chief Inspectors visit these premises when they are instructed to do so by the Chief Inspector.

In addition to monthly reports, the inspectors make special reports as and when necessary. Inspectors check each licensed establishment assigned to their inspectorate and among their various duties they observe maintenance of the law and regulations pertinent thereto, cleanliness of premises and the varying services supplied by the licencee, sterilization of glasses used in the consumption of beverages, and cleanliness of kitchen and equipment in the kitchen. Each inspector also checks fire hazards in the several premises.

On December 31, 1946, there were in existence 1,241 Hotel Authorities, of which 30 were Summer Hotels operating under an Authority for six months of the year; 149 Social Club Authorities; 141 Veteran and Labour Club Authorities; 166 Military Mess Authorities; and 8 Steamship Authorities. (SCHEDULE 1 is a list of these Authorities).

During the nine months previous to December 31, 1946, two Hotels and one Social Club were destroyed or damaged by fire as follows:

Municipality	Name of Hotel or Club	Date Closed	Date Opened
Mount Forest	Mount Royal Hotel	Oct. 28, 1946	Feb. 24, 1947
Sault Ste Marie	Sault Ste. Marie Golf Club	Dec. 10, 1946	June 10, 1947
Toronto	Clifton Hotel	Nov. 2, 1946	Nov. 28, 1946

Authorities were issued to 24 new hotels; 7 new social clubs; and 13 new veterans' clubs. The names of these are included in Schedule I and designated as (new).

The licences of two clubs, namely; Troubadour Club, Sault Ste. Marie, and Fourth Battalion Club, Toronto, that were under suspension as of April 1st, 1946, were not renewed.

SCHEDULE II sets forth detailed statement of Authorities transferred; and

SCHEDULE III, a list of Authorities suspended.

SCHEDULE IV gives a detailed statement of the Board's expenses as of December 31, 1946.

When the conduct of the licensed premises is not in accordance with the law or regulations, licencees are replaced by those who, it is hoped, will prove satisfactory.

For the nine month period ending December 31, 1946, the sum of $702,574.13 was collected in transfer fees.

Generally speaking the Board has had satisfactory co-operation from Provincial and Municipal Police Officers. The staff of the Board is efficient, considering the Board's inadequate office space. Employees are for the most part courteous and loyal.

Respectfully submitted by

W. T. ROBB,

Chairman.

SCHEDULE No. I

Authorities In Existence and the Name of the Owners Thereof As of December 31st, 1946

HOTELS

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
ACTON	Dominion Hotel Main Street	Royston, Mrs. M. A.
"	Station Hotel Box 425	Lasby, S. M.
ALEXANDRIA	Alexandria Hotel	MacLachlan, J. A.
"	Ottawa House	Rouleau, E.
ALFRED	Ontario Hotel Main Street	Lafleur, E.
"	Prescott Hotel	Houle, L.
"	Regal Hotel (New)	Tierney, J. J. and P.
ALGOMA MILLS	Algoma Inn	Hoeberg, Mrs. M.
ALMONTE	Almonte Hotel Bridge Street	Whitten, A. H.
ALVINSTON	Columbia Hotel River Street	Huzevka, M. and Betik, A.
"	Grand Central Hotel River & Railroad Streets	Simpson, S. S. and Munro, J. D.
AMHERSTBURG	Amherst Hotel Richmond Street	Fleming, C. W.
"	Anderdon Hotel R.R. 3	Travica, S.
"	Lakeview Hotel 23 Dalhousie Street	Ljiljak, J. and Ostoich, E.
"	Lucier's Hotel R. R. 1	Lucier, D.
ANSONVILLE	Anson Hotel 65 Main Street	Lauzon, Louis
"	Capitol Hotel	Purificati, D.
"	Union Hotel Railway Street	Cousineau, T. and Lemire, A.
ARMSTRONG	King George Hotel	Lindholm, Mrs. H. I.
ARNPRIOR	Central Hotel 69 Madawaska Street	Bedore, Mrs. C.
"	New Byrne Hotel 197 John Street	Byrne, J. R.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
ARTHUR	Commercial Hotel George Street	West, W. L. and Bolen, W. R.
"	Queen's Hotel	Heffernan, D. A.
ASTORVILLE	Rochefort Hotel	Rochefort, H.
ATHERLEY	Atherley Arms Hotel	Atherley Arms Limited
"	Lakeview Hotel	Atkinson, F. M.
ATIKOKAN	Atikokan Hotel	Shelepiuk, Mrs. E.
AYLMER	Central Hotel	Brooks, C. A. and Lamb, C.
AYR	Queen's Hotel Swan Street	Siemieniuk, O.
AYTON	Commercial Hotel	Doersam, P. F.
BADEN	Baden Hotel	Zimmerman, G. T.
"	Maple Leaf Hotel	Habel, C.
BALA	New Windsor Hotel	Frew, T. and M.
"	Balabay Lodge	Davey, C.
BARRIE	American Hotel 74 Collier Street	Soyko, W. and Shewchuk, M.
"	Clarkson Hotel 130 Dunlop Street	White, F. and McElroy, J. E.
"	Clifton Hotel 257 Bradford Street	Kerrigan, S. C.
"	Queen's Hotel 94 Dunlop Street	Cween's Hotel (Barrie) Limited
"	Simcoe Hotel Five Points	Cohen, M. and Dollinger, S.
"	Wellington Hotel 4 Elizabeth Street	Wellington Hotel (Barrie) Limited
BARRY'S BAY	Balmoral Hotel	Estate of J. B. Billings
BARWICK	Barwick Hotel	McGauley, R. H. and Gallo, S.
BATCHEWANA BAY	Batchewana Hotel	Parr, James T.
BEARDMORE	Beardmore Hotel	Beardmore Hotel Company Limited
"	Alexander Hotel (New)	Erechook, L. W. and N. J.
BEETON	Beetonia Hotel	Boake, R. H.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
BEAUMARIS	Roseneath Manor	Boyd, I. S. and Estate of F. T. W. Ford
BELLE RIVER	Alexander Beach Grove Hotel R. R. 1 (Maidstone Twp.)	Carriere, A.
" "	Belle River Hotel Main Street	Parent, C. J.
" "	Cooper Court Hotel	DeRush, J. E.
" "	King George Hotel Main Street	George, J.
" "	Wellington Hotel	Tomich, D.
BELLEVILLE	Belvedere Hotel 360 Front Street	Allore, Mrs. L.
"	Canadian Hotel 37 Dundas Street	Canadian Hotel (Belleville) Limited
"	City Hotel 310 Front Street	Yanover, J. N.
"	Crystal Hotel 317 Front Street	Haggis, Paul
"	Docter's Hotel 237 Station Street	Briens, A. J. and Mrs. C. C.
"	New Queen's Hotel 158 Front Street	Yanover, J. N.
"	Quinte Hotel Bridge & Pinnacle Streets	Hotel Quinte Limited
BERWICK	Ottawa Hotel	Chales, P. H.
BIGWOOD	Commercial Hotel	Hennessy, T. A.
BLAIR	Nicholson Inn	Nicholson, Mrs. I. M.
BLENHEIM	Blenheim Hotel	Kent, D. E.
"	Cadillac Hotel Talbot Street	Getty, F. H. and Mrs. J.
BLEZARD VALLEY	Blezard Hotel	Dennie, G. J.
BLIND RIVER	Harmonic Hotel Woodward Avenue	Laforge, Omer
"	Lincoln Hotel	Doyle, J. J. and Robert, J
"	Riverside Hotel	Gauthier, A.
"	Riverview Hotel	Berthelot, J. L.
BONFIELD	Ottawa Hotel	Corbeil, N.
BOTHWELL	Central Hotel 164 Main Street	Morgan, L.
BOURGET	Royal Hotel	Gagne, R.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
BRADFORD	Queen's Hotel Holland Street	McEvoy, H. J. and F. M.
“	Village Inn	Zaykowski, N.
BRANTFORD	Belmont Hotel 157 Colborne Street	Creasy, Mrs. E. and Rixson, J.
“	Bodega Hotel 64 Market Street	Bodega Hotel Ltd.
“	Brant Hotel 89 Dalhousie Street	Brant Apartments Ltd.
“	Kerby House 224 Colborne Street	Estate of I. W. Champion and Estate of Miss E. Zimmerman
“	New Benwell Hotel 187 Market Street	McQueen, R.
“	Alpine House 20 Dalhousie Street	Reid, G. A. and Hodges, Thos.
“	Prince Edward Hotel 16 Colborne Street	Howarth, A.
“	St. Julien Hotel 239 Market Street	Wood, Miss E.
“	Strand Hotel 97 Dalhousie Street	Craise, Robert A.
BRECHIN	Victoria Hotel	Mitchell, F. J.
BRESLAU	Breslau Hotel	Brohman, C.
BRIDGEPORT	Lancaster Hotel	Querin, F.
“	Grand Hotel (New)	Berges, E. A.
BRIGHT	Arlington Hotel	Moss, Charles H.
BRITT	New Magnetawan Hotel (New)	Biasucci, W. A. and Lamondin, E.
BROCKVILLE	Clifton Hotel 220 King Street, West	O'Connor, Mrs. M. H.
“	Commercial Hotel 214 King Street, West	Archinal, J.
“	Garbutt's Hotel 19 King Street, East	Ashley, Mrs. J.
“	Grand Central Hotel 130 King Street, West	Ness, Mrs. B. M.
“	Manitonna Hotel 1 King Street, East	Brockville Hotel Company Limited
BRONTE	Pig & Whistle Inn R. R. 1	Petroff, C. J., Holubicki, J. and Rack, Rudy
BRUCE MINES	Bayview Hotel	Cox, Russell H.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
BURK'S FALLS	Central Hotel	Bowie, Mrs. A. M. and Brasher, Miss B. E.
BURLINGTON	Brant Inn Water Street	Kendall, C. H. and Anderson, J. M.
"	Coronation Hotel 25 Brant Street	Kozak, M.
"	Estaminet Hotel 50 Water Street	Byrens, Mrs. E. M.
"	Sherwood Inn 35 Brant Street	Smylski, Mrs. D.
CACHE BAY	Cache Bay Hotel Railway Street	Arcand, J.
"	Traveller's Hotel	St. George, L.
CALEDONIA	Exchange Hotel Argyle Street	Exchange Hotel Limited
"	Union Hotel Argyle Street	O'Meara, D.
CALLANDER	Callander Hotel	Stirling, Mrs. L.
"	Red Line Inn	Wookey, L.
CALONG	Waverly Hotel (New)	Clarke, G. R.
CAPREOL	Capreol Hotel Front Street	Capreol Hotel Co., Ltd.
CARDINAL	Dillon House	Dillon, W. A.
CARGILL	Village Inn	Schmidt, R. G.
CARLSBAD SPRINGS	Johnson's Hotel	Johnson, Mrs. H.
CARLSRUHE	British Hotel	Halter, C. J.
CASSELMAN	New Commercial Hotel	Giroux, P.
"	Russell Hotel Main Street	Landry, H.
CAYUGA	Campbell House	LaVieille, N. P.
"	Cayuga Hotel Talbot Street	Allewell, J. C.
CENTRAL PATRICIA	Patricia Hotel	Wilson, E. S.
CHALK RIVER	Chalk River Hotel	Dover, C. C.
CHAPUT HUGHES	Village Hotel	Dame, A.
CHATHAM	Aberdeen Hotel 1 Grand Avenue, East	Martin, Jas. C.
"	C.P.R. Hotel 9 - 11 King Street	Ross, A. N. and Rosenberg, A. B.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
CHATHAM	Chatham Hotel 49 Fifth Street	Kerr, J. B.
"	East End Hotel 119 King Street, East	Obradovic, J. and Raguz, A.
"	Merrill House 2 King Street, West	Harris, L.
"	Montreal Hotel 179 Grand Avenue, West	Campbell, H. C.
"	Park View Hotel 35 William Street, North	Prince, E. A.
"	Rankin Hotel 182 King Street, West	Pleasence, J. J. and Mrs. J. J.
"	Tecumseh Hotel 342 Queen Street	Morgan, R.
"	William Pitt Hotel 30 Sixth Street	William Pitt Hotel Limited
CHATSWORTH	Campbell House	Crawford, J. F. and Mrs. M.
CHELMSFORD	Algoma Hotel Box 159	Trottier, D. and P.
"	Welcome Hotel Front Street	Vaillancourt, E.
CHEPSTOW	King Edward Hotel	Fleming, Mrs. M.
CHESTERVILLE	Albert's Hotel	Lefebvre, A. A.
"	McCloskey House	Barker, F. W.
CHIPPAWA	Chippawa Hotel 18 Main Street	Kolaczynski, K.
"	Riverside Hotel	Sainovich, G.
CHUTE A BLONDEAU	Central Hotel	Martineau, D.
CLARENCE CREEK	Du Peuple Hotel	Potvin, E.
" "	Union Hotel	Gagnon, A.
CLIFFORD	Mansion Inn Elora Street	Kruspe, J. A.
COBALT	Fraser House 24 Prospect Avenue	Abraham, E. A. and R.
"	Miner's Home Hotel 75 Lang Street	Robitaille, J. A.
COBOCONK	Pattie House Main Street	Cheney, G. J.
COBOURG	Baltimore Hotel 174 Division Street, South	Mackie, J. W.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
COBOURG	British Hotel 68 King Street, West	Caughey, L. A.
"	Chateau Hotel 55 King Street, East	Rogers, Mrs. B. I.
"	Homelike Inn 205 Third Street	Kelly, G. H.
"	New Dunham Hotel 256 Division Street	Bell, F. J.
"	New Royal Hotel 73 King Street	Estate of James M. Midgley
COCHRANE	Albert Hotel 183 Railroad Street	Boisvert, A.
"	Anderson Hotel 179 Fourth Avenue	Thiboutot, F. X.
"	King George Hotel Fourth & Railway Sts.	Dobenko, M.
"	London Hotel Railway Street	Chamandy, Mrs. F.
"	Northland Hotel 125 Fourth Avenue	Johnson, Mrs. A.
"	Stevens House 223 Railway Street	Stevens, Mrs. F. E.
CONESTOGO	Trail's End Hotel 5 King Street	Richter, M.
CONNAUGHT STATION	Connaught Hotel	Racicot, L.
CORNWALL	Carleton Hotel 33 First Street, East	Runions, Mrs. M. E.
"	Central Hotel 341 Pitt Street	Miller, J.
"	Cornwallis Hotel 22 Second Street, West	Cornwall Community Hotel Company Ltd.
"	Grand Hotel 440 Water Street, East	Miron, A. D.
"	King George Hotel 3 Second Street, East	Thomas and Nash Limited
"	Lloyd George Hotel 15 Pitt Street	Lloyd and George Hotel Company Limited
"	National Hotel 830 Second Street, West	Humans, M.
"	Royal Hotel 348 Montreal Road	Fred Lefebvre Company Limited

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
CORNWALL	St. Lawrence Hotel 900 Montreal Road	Fox, George and Mrs. E. and Sheedy, B.
COURTLAND	Courtland Hotel	Vecsi, J.
COURTWRIGHT	Courtright Hotel Front Street	Caraher, D. D.
CROWLAND	Station Hotel 619 King Street	Adamcryck, J. and Zuba A.
CRYSLER	Commercial Hotel	Brisebois, E. and Martin, D. E.
“	Russell Hotel Charles Street	Dutt, J. J.
CRYSTAL BEACH	Hebert Hotel Ridge Road	Hebert, W. O.
“ “	Lincoln Hotel 5-7 Lincoln Road, East	Buck, E. A.
“ “	Markcity Hotel 7 Cambridge Street, East	Berezowsky, W.
“ “	Martinell Hotel Queen's Circle	O'Brien, Mrs. M. E.
“ “	Ontario Hotel 5 Derby Road	Holmes, W.
“ “	Sheehan's Terrace Inn 41 Terrace Lane	Milligan, E.
” ”	Teal's Hotel 45 Erie Road	Teal, Mrs. J. B.
“ “	Park Hotel 22 Derby Road	Hitch, Mrs. E.
CRYSTAL FALLS	Chebogan Hotel	Fisher, R.
CURRAN	Curran Hotel	Laframboise, V.
DELHI	Delhi Inn 147 Main Street	Wardell, H. and Caswell, H. L.
“	Stoddard Hotel King & Main Streets	Tuinyla, M.
DESBORO	Desboro Hotel	Fitzpatrick, J.
DESERONTO	Arlington Hotel Main Street	Marck, S. R.
DOUGLAS	Minto House	Neville, M. T.
DRESDEN	Morgan Hotel Main Street	Weese, D. J.
DRYDEN	Central Hotel 20 King Street	Kunza, A. A.
“	Dryden Hotel 74 Queen Street	Self, W. E.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
DUNDAS	Central Hotel 93 King Street	Haley, E. J.
"	Collins Hotel 33 King Street	Lowry, E. F.
"	Melbourne Hotel 89 King Street	Deratnay, G.
DUNNVILLE	Royal Hotel Maple Street	Casey, R. J. and T. J.
"	Queen's Hotel 121 Main Street	Edgar, G. R.
"	Savoy Hotel 418 Chestnut Street	McCorrie, Jas. E.
"	Victoria Hotel Chestnut Street	Garbutt, F.
EAGLE RIVER	Cascade Hotel	Johnson, M. A. and Barrieau, J.
EARLTON	Cecil Hotel	Paiement, R.
"	LaSalle Hotel	Cloutier, A.
EASTVIEW	Claude Hotel 48 Beechwood Avenue	Claude Hotel Co. Ltd.
"	Eastview Hotel 120 Montreal Road	Eastview Hotel Ltd.
EAST YORK	Wallace Hotel 302 O'Connor Drive	Overholt, Harold F.
EGANVILLE	Central Hotel	Foy, F. C.
"	Eganville Hotel	Sammon, Miss M.
ELGIN	Empire Hotel Perth & Water Streets	O'Connor, G. F. and Murphy, Mrs. A. M.
ELK LAKE	King Edward Hotel	Sauve, L.
" "	Stonehouse Hotel Fourth Street	Marion, Ed.
ELMIRA	Central Hotel 30 Arthur Street	Mailloux, W. E.
"	Royal Hotel 4 Arthur Street	Harvey, G. J.
"	Steddick House 52 Arthur Street	Yanchus, Mrs. P. E.
ELMVALE	New Palace Hotel Queen Street	Smith, A.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
ELMWOOD	Queen's Hotel	Sainsbury, O.
ELORA	Iroquois Hotel Metcalfe Street	Wood, J. A.
EMBRUN	Standard Hotel	Burelle, P. A.
EMO	Emo Hotel	Grodwick, M. and Chorny, Wm.
ENGLEHART	Clifton Hotel Third Street	Korman, D.
"	Commercial House Fourth Avenue	Clark, J.
"	Eldon House	Morris, Jas.
ERIEAU	Lakeview Hotel	Yandrash, I.
ERIN	Busholme Hotel	Fullerton, A. M.
ERINSVILLE	Lakeview Hotel	Wagar, W. S.
ESPANOLA	Espanola Hotel 1 Barber Street	Alexander, D.
ESSEX	Aberdeen Hotel Talbot Street	Stotts, W. F.
"	Grand Central Hotel 70 Talbot Street	Crowley, L. L.
ETOBICOKE	The Old Mill 35 Old Mill Road (Toronto 9)	Valley Improvement Company Limited
FAIRBANK	Fairbank Hotel 2418 Dufferin Street	Crawford, S. B.
FALLS VIEW	Falls View Hotel 2434 Stanley Avenue	Podhorn, S. F.
FAVORABLE LAKE	Hill Top Lodge	Hill Top Lodge Co. Ltd.
FERRIS WEST	Algonquin Hotel	Dugas, W. W.
" "	Lakeview Inn (Mailing Address: Box 113, North Bay)	MacLean, Mrs. E. I.
FIELD	Field Hotel	Sauve, L.
FISHERVILLE	Erie House	Benner, W. E.
FLINTON	Stewart House Holden Street	Yanch, J. E.
FOLEYET	Commercial Hotel	Robert, J. and Denommee, M.
"	Gold Belt Hotel	Mageau, F.
FORBES	Maple Leaf Hotel	Dubois, Z. and Giroux, A.
FORMOSA	Commercial Hotel	Schnurr, C.
"	Formosa Hotel	Opperman, A. M.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
FORT ERIE	Anglo-American Hotel 280 Niagara Boulevard	Neichenbauer, A. and Yovetich, S.
" "	Erie Lane Hotel 33 Princess Street	Wlaydka, W. and Rozko, M.
" "	Fort Erie Hotel 224 Garrison Road	Wetzel, P. H.
" "	G. T. R. Hotel 366 Gilmore Road	Karpiniec, J.
" "	New King Edward Hotel 271 Niagara Boulevard	Sima, A., Stanko, M. and Sima, A. Jr.
" "	Niagara Hotel 92 Niagara Boulevard	Kee, W.
FORT ERIE NORTH	Barnea House 28 Courtwright Street	Dancy, R. P.
" " "	Merview Hotel 56 Courtwright Street	Compton, M.
" " "	Ohio Hotel 33 Niagara Boulevard	Zajac, A.
" " "	Royal Hotel 1 Niagara Boulevard	Uster, Mrs. V.
FORT FRANCES	Emperor Hotel 400 Front Street	Pidlubny, G.
" "	Fort Frances Hotel 427 Mowat Street	DeCruyenaere, A. A.
" "	Monarch Hotel Front Street	Pidlubny, G. and Kliner, H.
" "	Prince Albert Hotel 131 Church Street	Griffiths, Mrs. M.
" "	Rainy Lake Hotel 235 Scott Street	Gray, John J.
" "	White Pine Inn 800 Scott Street	Crawford, A. G.
FORT WILLIAM	Adanac Hotel 227 Simpson Street	Hanley, Wm. J.
" "	Empire Hotel 140 Simpson Street	Hurtig, M. and B.
" "	Empress Hotel 105 Heron Street	Zaroski, W.
" "	Royal Edward Hotel 114 South May Street	Fort William Hotels Ltd.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
FORT WILLIAM	St. Louis Hotel 401 Victoria Avenue	Rothwell, S. E.
“ “	Simpson Hotel 401 Simpson Street	Watson, R. O.
“ “	Victoria Hotel Victoria Avenue & Syndicate Street	Wadson, I. I.
“ “	Wayland Hotel 1019 Gore Street, West	Bernardi, B.
“ “	West Hotel 126 Simpson Street	Black, A. J.
“ “	Alexandra Hotel 100 Gore Street	Zaroski, John
FOURNIER	Commercial Hotel Main Street	Besner, L.
FRANZ	Franz Hotel	Miller, Mrs. A. M.
GALT	Iroquois Hotel 129 Main Street	Iroquois Hotel Limited
“	New Albion Hotel 103 Water Street, North	Bellmore, W. G. and Mrs. Agnes
“	Overland Hotel 18 Concession Street	White, Mrs. F. E.
“	Royal Hotel 138 Main Street	S. A. Greer Interests Ltd
GANANOQUE	Gananoque Inn Stone Street	Gananoque Inn Limited
“	International Hotel King & Main Streets	McGregor, Mrs. A. I.
“	Provincial Hotel King Street	McCarney, H. A.
GARSON	Royale Hotel Church & Birch Streets	Mady, C. A.
GEORGETOWN	Exchange Hotel Queen Street	Wright, Mrs. A.
“	McGibbon Hotel Main Street	Estate of S. H. McGibbon
GERALDTON	Geraldton Hotel 130 First Avenue, North	Draper, W. F.
“	Thunder Bay Hotel Main Street	Koleff, K.
“	Queen's Hotel (New)	Pawlowski, M.
GLENCOE	McKellar House Main & McKellar Streets	Loosemore, Mrs. E.
GLEN ORCHARD POST OFFICE	Sherwood Inn	Sherwood Inn Limited

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
GOGAMA	Gogama Hotel	Giroux, A.
GOLDEN LAKE	Golden Lake Hotel	Layman, C.
GOWGANDA	White House	LaFrance, H. and Mrs. D.
GRAVENHURST	Albion Hotel Muskoka Street	Fletcher, Mrs. E. E.
"	Gilmour Hotel Muskoka Street	Estate of R. P. Powell
GRIMSBY	Grimsby Hotel 30 Main Street, West	Hannah, G. A.
"	Village Inn 57 Main Street, West	Hannah, G. A.
GUELPH	Albion Hotel 49 Norfolk Street	Thompson, Mrs. M. P.
"	King Edward Hotel 2 Wyndham Street	Walsh, W. and Musselman, H. C.
"	New Western Hotel 72 Macdonnell Street	Singular, J. A.
"	Regent Hotel 52 Macdonnell Street	Regent Hotel (Guelph) Limited
"	Royal Hotel 106 Garden Street	Fischer Brothers Limited
"	Wellington Hotel 153 Wyndham Street	Bristol Hotel Co. Ltd.
HAGAR	Royal Hotel	Roy, C.
HAGERSVILLE	Commercial Hotel King Street	Dubrick, C.
"	New Alward Hotel Main Street	Edmunds, F. C.
HAILEYBURY	Haileybury Hotel Ferguson Avenue	New Temiskaming Hotel Limited
"	Lake Shore Hotel	Boyer, E.
"	Matabanick Hotel Box No. 62	Fleming, N. P.
HAMILTON	Armoury Hotel 195 James Street, North	Armoury Hotel Co. Ltd.
"	Athletic Hotel 12 Market Square	Murphy, J. J.
"	Avon Hotel 912 Barton Street, East	Hammer, F. W.
"	Balmoral Hotel 669 King Street, East	Cowan, Mrs. K.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
HAMILTON	Bayview Hotel 81 Stuart Street, West	Senson, P.
"	Brightside Hotel 909 Burlington Street, E.	Graham, W. B. P.
"	Britannia Hotel 672 Barton Street, East	Masters, J. and Santomero, A.
"	British Empire Hotel 373 Sherman Avenue, N.	Sych, D. and Lorenitis, S.
"	Carlton Hotel 659 King Street, East	Berryman, F. J. and L. F.
"	Cecil Hotel 113 James Street, North	Olivieri, D.
"	Dog & Gun Hotel 295 York Street	Wintonek, D. and Wicinski, J.
"	Dundurn Hotel 452 York Street	Brick, W. J.
"	El-Mar Hotel 163 Main Street, West	Skingley, Mrs. F. W.
"	Fischer's Hotel 51 York Street	Fischer, W. L.
"	Gage Hotel 105 Beach Road	Krzyzan, P.
"	Genessee Hotel 468 James Street, North	Sardo, L.
"	Gladstone Hotel 1385 Main Street, East	Spencer, Joseph
"	Grand Hotel 5 Gore Street	Ryan, J., Marck, K. and G.
"	Greene's Hotel R. R. 1	Greene, J. J.
"	Curry's Hotel 175 Young Street	Kavanagh, D.
"	Hanrahan Hotel 92 Barton Street, East	Hanrahan, J. J.
"	Homeside Hotel 229 Kenilworth Avenue, North	Rosart, C. J. and Taylor, D.
"	Honest Lawyer Hotel 55 Mary Street	Davey, N. J.
"	International Hotel 309 James Street, North	Martini, D.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
HAMILTON	Iroquois Hotel 94 King Street, West	Hultey, W.
"	Jockey Club Hotel 1091 Barton Street, East	Kretschman, J. H. R.
"	Kenilworth Hotel 259 Kenilworth Avenue, North	Walsh, V. J.
"	King George Hotel 27 McNab Street, North	Salonen, Chas.
"	Melba Hotel 410 York Street	Chopik, W. P.
"	Modjeska Hotel 554 James Street, N.	Estate of J. J. Murphy
"	Park Hotel 476 King Street, West	Lorenitis, S. and Sych, D.
"	Piccadilly Hotel 1038 Barton Street, East	Hudecki, L. J. and M.
"	Picton Hotel 183 Picton Street, East	Brugos, G.
"	Prince Edward Hotel 737 Barton Street, East	Estate of F. Gral
"	Queen's Hotel 180 Ottawa Street	Fleming, A. J.
"	Regal Hotel 152 King Street, West	Smith, J. G.
"	Royal Connaught Hotel 112 King Street, East	Connaught Hotel Company Limited
"	Royal Hotel 94 McNab Street, North	Labelle, R. J. and Kumpf, C. H.
"	Savoy Hotel 32 Barton Street, East	Oddie, J. A.
"	Sherman Hotel 421 Sherman Avenue, N.	Stecyk, P.
"	Stafford House 52 Charles Street	Myatt, W. J.
"	Strand Hotel 262 Dundurn Street, S.	Shadney, P. and O. P.
"	Terminal Hotel 180 King Street, East	Bach, H. C.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
HAMILTON	Turbinia Hotel 345 James Street, North	Bencekovich, P. and Holetic, M.
"	Vienna Hotel 152 Gertrude Street	Vasileff, D.
"	Waldorf Hotel 28 Merrick Street	Schwartz, Mrs. H.
"	Waverley Hotel 632½ Barton Street, East	Kisil, W.
"	Wellington Hotel 161 Wellington Street, N.	Donohue, J. J.
"	Wentworth Arms Hotel Main & Hughson Streets	Munro, Misses A. B. and M.
"	Wentworth Hotel 365 Wentworth Street, N.	Appleyard, Mrs. C.
"	Whitmore Hotel 59 McNab Street, North	Whitmore Hotel Limited
"	Wilson's Hotel 388-390 York Street	Wilson, J.
"	Windsor Hotel 31 John Street, North	J. Ross Fischer Hotels Limited
HAMILTON BEACH	Lakeside Hotel 1151 Beach Boulevard	Perry, Miss G.
" "	New Dynes Hotel 337 Beach Boulevard	Wiwchar, M.
HAMMOND	Junction Hotel	Gendron, A.
HANMER	Joffre Hotel	Cayen, L. B.
HANNON	Plantation Hotel R. R. 3 (Box 341, Hamilton)	DeGeer, Mrs. L. A.
HANOVER	Hanover Inn Durham Road	Kormann, H. L.
"	Queen's Hotel Durham Road	Francis, Mrs. L. L.
"	Union Hotel	Deratnay, E.
HARRISTON	Coronation Hotel Elora Street	Payne, A. B.
"	Royal Inn Elora Street	Perry, Dale
HASTINGS	Royal Hotel Bridge & Water Streets	Jones, E. W.
HAWKESBURY	Bridge Inn 139 Main Street, West	Montpetit, O.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
HAWKESBURY	King Edward Hotel	Lalaonde, E. J.
"	Royal Hotel 24 Main Street, West	Castonguay, J. B., Albert, Marie, Claire and Denault, Leslie
HAWK JUNCTION	Hawk Junction Hotel	Flanagan, W. G. and Mrs. L. V.
HEARST	Palace Hotel Ninth Street	Charpentier, F.
"	Queen's Hotel Ninth Street	Knipprath, H.
"	Waverley Hotel Front Street	Groothelm, E.
"	Windsor Hotel	Hudon, T.
HEIDELBERG	Olde Heidelberg Inn	Giesler, H. C.
HEPWORTH	Royal Hotel Queen Street	Bonser, Robt. A.
HERON BAY	North Shore Hotel	North Shore Hotel Co. Limited
HESPELER	Hespeler Hotel	Jaras, M.
"	Queen's Hotel	Cornell, J. S.
HIGHLAND CREEK	Highland Inn	Maxwell, W.
HILTON BEACH	Hilton Beach Hotel	Wells, S.
HOLTYRE	LaSalle Hotel	LaSalle, J. P.
HONEY HARBOUR	Delawana Inn	Grise, F. S. and G. E.
" "	Royal Hotel	Grise Bros. Limited
HORNEPAYNE	Hornepayne Hotel	Easton, Norman A.
"	Taylor's Hotel	Taylor, R. J. and Mrs. A. M.
HUDSON	Grandview Hotel	Gastmeier, R. J.
HUMBER BAY	Hollywood Hotel Queen & Wesley Streets	Gentile, F.
" "	Humber Hotel 63 Lakeshore Road	Estate of W. A. Taylor and J. Begley
HUMBERSTONE	Humberstone Hotel 154 Main Street	Humberstone Hotel Company Limited
"	Western Hotel 129 Main Street	Reeb, W. G.
"	City Hotel (New) 202 Main Street	Misener, Melvin

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
HUNTSVILLE	Bayview Hotel 100 Main Street	Dopfer, T. S.
“	Dominion Hotel Main Street	Stirling, Mrs. L.
IGNACE	Ignace Hotel Front Street	Smilsky, W.
IRON RIDGE	Rod & Gun Hotel	Milligan, C. E. and E.
ISLINGTON	Islington Hotel 4922 Dundas Street, West	Estate of Mrs. E. C. McDonnall
“	Six Points Hotel 5179 Dundas Street, West	H. F. Fleury Co. Ltd.
JACKFISH	Lakeview Hotel	Spadoni Bros. Ltd.
JACKSON'S POINT	Lake Simcoe Hotel	Peace, E. M.
“ “	Kenwood Hotel	Farrell, J.
JAMOT	Beausejour Hotel	Bouverat, J. P. L.
JARVIS	Jarvis Hotel	Slack, W. R.
JASPER	Jasper Hotel	Watson, B.
JONES FALLS	Kenney Hotel	Kenney, T. J.
JORDAN	Dwarf Village Inn Highway No. 8	Kozak, Ilia and Marsh, Alexander
“	Jordan Inn	Tys, Walter
KALADAR	Kaladar Hotel	Brydson, Mrs. I. M.
KAPUSKASING	Commercial Hotel 5 O'Brien Avenue	Desgroseilliers, C.
“	Empire Hotel 30 Henderson Avenue	Paquette, J.
“	Plaza Hotel Queen & Dallyn Streets	Godin, C. M.
“	Radio Hotel Henderson & O'Brien Sts.	Spooner, F. J.
“	Sunshine Hotel	Lefebvre, A.
“	Kapuskasing Inn Riverside Drive	Spruce Falls Power and Paper Co. Ltd.
KEARNEY	Kearney Hotel	Whittaker, J.
KEARNS	Park Hotel Government Road	Ferianz, M.
KEEWATIN	Bay City Hotel Front & Main Streets	Rochon, Mrs. G.
“	Lakeshore Hotel	Grendys, W.
KENOGAMI LAKE	Kenogami Hotel	Malnerich, P.
KENORA	Commercial Hotel 101 Chipman Street	Pidlubny, G. and Barrieau, J.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
KENORA	Dalmore Hotel Main Street	Melnyk, Mrs. Eva
"	Kenricia Hotel Main & Second Streets	Kenricia Hotel Company Limited
"	Lake of the Woods Hotel 132 Matheson Street	Corneillie, H.
"	Ottawa Hotel 219 Matheson Street, S.	McKay, R.
KEYSTONE ISLAND	Keystone Camp Hotel	Keystone Properties Ltd.
KILLALOE STATION	Beresford Hotel Queen & Lake Streets	Hanson, C. R.
KING KIRKLAND	King Kirkland Hotel	Lapierre, A.
KINGSTON	British American Hotel 42 Clarence Street	The Randolph Hotel Company Limited
"	Frontenac Hotel 178 Ontario Street	Hyde, H. A.
"	Grand Hotel 76 Princess Street	McGall, T.
"	LaSalle Hotel Bagot Street	Randolph Hotel Co. Ltd.
"	New Windsor Hotel 205 Princess Street	Gilmour, Mrs. J. S.
"	Plaza Hotel 46 Montreal Street	Johnson, H. M.
"	Prince George Hotel 200 Ontario Street	Amey, W. J. and F. L.
"	Queen's Hotel 125 Brock Street	Berrigan, T., E. A., and M. J.
"	Royal Hotel 342 Princess Street	Kingston Hotel Co. Ltd.
KINGSVILLE	Kingsville Hotel Main Street	O'Malley, W. P. and Egan, Mrs. B.
"	Lakeshore Terrace Park Street	Mettawas Hotel Co. Ltd.
KIRKLAND LAKE	Bellevue Hotel 2 Taylor Avenue	LaPointe, R.
" "	Capitol Hotel 60 Second Street	New Townsite Hotel Co Ltd.
" "	Charlie's Hotel 34 Government Road, W.	Chow, C.
" "	Federal Hotel Federal & Day Streets	Rondeau, J. A.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
KIRKLAND LAKE	Franklin Hotel 60 Government Road, W.	Bedner, P. J.
“ “	4 Government Road Link Club Hotel	Lingenfelter, W. J.
“ “	Gold Range Hotel 45 Government Road, W.	Atkins, B.
“ “	Kirkland Lake Hotel 55 Government Road, W.	Elliott, H. E.
“ “	Park Lane Hotel 2 Government Road, W.	Princess Hotel Limited
“ “	Prince George Hotel 95 Government Road	Ducheneau, A. and Lavigne, C.
“ “	Princess Hotel 1 Government Road, W.	Princess Hotel Limited
“ “	Queen's Hotel 40 McCamus Avenue	Desgroseilliers, L.
“ “	Windsor Hotel 43 Government Road, W.	Kaplan, H.
“ “	York Hotel 8 Main Street	Northern Hotel (Kirkland Lake) Ltd.
“ “	Union Hotel 9 Main Street	Pavlakovich, F. and Mihelcic, J.
KITCHENER	American Hotel 1 Queen Street, North	Wagner, M.
“	East End Hotel 312 King Street, East	Mihiloff, E.
“	Grand Union Hotel 130 King Street, West	Wismer, A. O.
“	Kitchener Hotel 101 King Street, East	Kitchener Hotels Limited
“	Mayfair Hotel 11 Young Street	Mayfair Hotel Limited
“	Station Hotel 122 Weber Street, West	Chris, S.
“	Walper Hotel 1 King Street, West	Kitchener Hotels Limited
“	Windsor Hotel 168 King Street, West	Estate of C. J. Bruder
LAMBTON	Lambton Hotel 4062 Dundas Street, W.	Thomson, C. P. and Fraser, R. G.
LANCASTER	Commercial Hotel	Leger, Lorenzo

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
LARDER LAKE	Grainger Hotel 205 Godfrey Street	Gadzalas, V.
" "	Larder Lake Hotel	Dobrijevich, I.
LaSALLE	Chateau LaSalle Front Road	Chateau LaSalle Limited
"	Sunnyside Hotel	Terpenkis, D. and Rezler, A.
LATCHFORD	Lady Evelyn Hotel	Burns, M.
LAVIGNE	Lavigne Hotel	Martin, J. R.
LEAMINGTON	Auto Stop Inn	Vlasic, I.
"	International Hotel 35 Erie Street, South	Sarochan, W. and Evanson, A.
"	Leamington Hotel 58 Talbot Street, East	Brown, M.
"	Seacliffe Hotel Erie Street, South	Seacliffe Hotel Limited
LEFAIVE	Pregent Hotel	Pregent, A.
LINDSAY	Benson House 24 Kent Street	Egan, R. V. and Dawe, W. A.
"	Central Hotel 7 William Street, South	Maunder, D. J.
"	Grand Hotel 171 Kent Street, West	Bland, S.
"	Kent Hotel 34 Lindsay Street, South	Parkin, S., Muzyka, J. and Pary, W.
"	New Royal Hotel 2 Kent Street	Adam, J. S. and Fralick, C. A.
LINWOOD	Linwood Hotel	Thompson, R. L.
LONDON	Belvedere Hotel 105 Dundas Street	Parsons, A.
"	Brunswick Hotel 331 Talbott Street	Herbert, W. H.
"	C.P.R. Hotel 671 Richmond Street	Richardson, Mrs. E.
"	Clarendon Hotel 369 Talbot Street	Deratnay, M.
"	Esquire Hotel 372 Dundas Street	Aitken, G. S.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
LONDON	Fraser Hotel 183 King Street	Fraser, A and G.
"	Grigg House York & Richmond Streets	Vallance, F. T.
"	Harvey Hotel 750 Hamilton Road	Vassar, A. A., J. S., and Weir, B.
"	Iroquois Hotel 367 Clarence Street	Downey, D. M.
"	London Hotel 279 Dundas Street	London Realty Company Limited
"	London House Hotel 415 Talbot Street	Brennan, Mrs. M. M. and Clark, Mrs. A. M.
"	Mayfair Hotel 89 King Street	Wakeam, A. K.
"	Oxford Hotel 769 Adelaide Street	Mayor, M. J.
"	Park Hotel 920 Dundas Street	Soloway, M. and Bobrowsky, H.
"	Queen's Hotel 763 Dundas Street	Jones, J. W.
"	Richmond Hotel 370 Richmond Street	Cook, W. L.
"	Ridout Hotel 346 Ridout Street	Kelly, B. L.
"	St. Regis Hotel 625 Dundas Street	Jacques, H. A.
"	Savoy Hotel 398 Clarence Street	Vassar, J. S., A. A., and E. C.
"	Sunnyside Hotel 732 Dundas Street	Hassan, A.
"	Victoria Hotel 466 Ottaway Avenue	Ginsberg, H.
"	Wellington Hotel 267 Bathurst Street	Escaf, R.
"	York Hotel 216 York Street	Assaf, A.
LONG BRANCH	Eastwood Park Hotel 1585 Lakeshore Road	Laurent, P. G.
" "	Long Branch Hotel	Wright, S. T.
LONG LAC	Long Lac Hotel	Gaffney, T. J. and Mrs. A.
LORETTO	Loretto Hotel	McCabe, Mrs. M. and Wilson, W. J.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
L'ORIGNAL	Riverview Hotel	Dubois, F.
LUCAN	Central Hotel Main Street	Stizer, Samuel
MADOC	Blue's Hotel Durham Street	Blue, L. C.
MAGNETAWAN	Schmeler Hotel	Schmeler, W. E.
MALDEN	Meadows Hotel	Meadows Hotel Limited
MALDEN TOWNSHIP	Lake Shore Hotel R.R. 2, Amherstburg	Kilgallin, T. V. and Ouellette, W. J.
MARATHON	Everest Hotel	Harbour Heights Ltd.
MARKSTAY	Markstay Hotel	Hillman, H. and St. Denis, J. N.
MARLBANK	O. K. House Queen Street	Schell, S. P.
MARMORA	Royal Hotel Forsyth Street	Neath, H. J.
MARTIN LAKE	Beaverland Hotel	Handley, A. J. J.
MARYHILL	Commercial Hotel	Halter, T., E., I., T., C., and W.
"	Scherrer Hotel	Scherrer, Mrs. M.
MARYSVILLE	Marysville Hotel	Fahey, J. V.
MASSEY STATION	Clifton Hotel	Estate of H. J. McNenly
MATACHEWAN	Park Hotel	Dalpe, J. A.
"	Radio Hotel	Bergeron, J. C.
"	Riverview Hotel Lot 18, Mayneur Avenue	Simons, Harry L.
MATHESON	Bermont Hotel (New)	Kaye, Montague, D.
MATTAWA	Mattawa Hotel	MacKechnie, Mrs. K.
"	Trans-Canada Hotel	Morel, Mrs. B.
MATTICE	Empire Hotel (New)	Gagnon, Napoleon
MAYNOOTH	Arlington Hotel	Painter, W. B.
McGREGOR	McGregor Hotel	Poole, K. St. G. and Mrs. G. B.
McINTOSH SPRINGS	McIntosh Hotel	Tremblay, H.
McKENZIE ISLAND	Gold Eagle Hotel	Gold Eagle Hotel Co. Ltd.
McKENZIE RIVER	McKenzie Inn (New)	Miocich, S. N.
McKERROW	McKerrow Hotel	Dominic, A.
MEADOWSIDE	Meadow Inn	Renaud, H.
MERRICKVILLE	Louis Hotel St. Lawrence Street	Crawford, G. R.
MERRITTON	Merritton Hotel 157 Merritt Street	Ricci, Mrs. D.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
MERRITTON	Union Hotel 123 Merritt Street	Hallett, Mrs. I.
MILDMAY	Commercial Hotel	Houghton, J.
"	Station Hotel	Walters, Murray F.
MILFORD BAY	Baycliff Inn	Campbell, J. H.
MILLE ROCHE	Ernie's Hotel	Runions, E. N.
MILTON	Kennedy Hotel Main Street	Kennedy, Mrs. R.
"	Milton Inn Main Street	Armstrong, F. W.
MIMICO	Sagamore Hotel 160 Lakeshore Road	Holmes, Thos., and Mrs. S. and Thorndike, J. Jr. and Mrs. R.
"	Windsor Hotel 15 Vincent Street	Ryan, V. G.
MINAKI	Holst Point Hotel	Smith, H. E. and Ritz, Mrs. G.
"	Minaki Lodge	Canadian National Railways
MINDEN	Dominion Hotel	Watson, K. B.
"	Rockcliffe Hotel	Harding, E.
MINE CENTRE	Mine Centre Hotel	Estate of Mrs. M. Law
MINETT	Paignton House	Pain, R. D.
MISSANABIE	Missanabie Hotel Curran Street	Debrie, Michael
MITCHELL'S BAY	Mitchell's Bay Inn	Pinsonneault, L.
MORRISBURG	Riverside Hotel	Geach, R. W.
"	St. Lawrence Hall Hotel Main & Lock Streets	McGannon, W. A. and Mrs. K.
"	Windsor Hotel Lock Street	Ourderkirk, P. E.
MOULINETTE	Lion Hotel	Whiteside, T. D.
MOUNT FOREST	Belmont Hotel Main Street	Hallal, Chas.
" "	Kent Hotel Main Street	Thorlby, G. E.
" "	Mount Royal Hotel Main Street	Hahn, O. J.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
NAIRN CENTRE	King George Hotel McIntyre Street	Zangari, N. G.
NAKINA	Nakina Hotel Railway Avenue	Ellis, E. F.
"	Commercial Hotel (New)	Aubry, J. A.
NAPANEE	Campbell House Dundas Street	Luffman, M. B.
"	Paisley Hotel 69 John Street	Tyson, Ed. and Mrs. J. A.
"	Queen's Hotel John Street	Munroe, Mrs. M.
"	Richelieu Hotel Dundas Street	Goodridge, S. D.
NEUSTADT	Commercial Hotel Mill Street	Himmelspach, J. P.
"	Locust Inn	Griffiths, Mrs. E. C.
NEWCASTLE	Elmhurst Hotel	Taylor, Jas. and Mrs. Daisy
"	Queen's Hotel	Byras, Limited
NEW DUNDEE	Barton's Inn Main Street	Barton, A. E.
NEW HAMBURG	Commercial Hotel	Chornolytky, W. and Lucyshyn, N.
" "	Imperial Hotel	Rumig, C. J.
" "	King Edward Hotel Waterloo Street	Meeker, C. H.
NEW LISKEARD	Grand Union Hotel Whitewood Avenue	Evans, L. S.
" "	Windsor Hotel Armstrong Street	Darwin, Mrs. A. G. and Edwards, G.
NEWTONBROOK	Algonquin Hotel 5797 Yonge Street	Zayats, A. and Zaraska, W.
NEW TORONTO	Almont Hotel 1072 Lakeshore Road	Almont Hotel Limited
" "	New Toronto Hotel 781 Lakeshore Road	Lavelle, H. J.
NIAGARA FALLS	Belleview Hotel 499 Ferguson Avenue	Distilio, A.
" "	Bon Villa Hotel 2565 Lundy's Lane	Allen, S. L.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
NIAGARA FALLS	Caverley Hotel 816 Bridge Street	Badovinac, E.
" "	Clifton Inn 955 Clifton Hill	Benson, W. P. and Gillespie, Alan C.
" "	Elliott Hotel 573 Queen Street	Sanson, A. V.
" "	Empire Hotel 238 Bridge Street	Stawchan, M.
" "	Erie Hotel 356 Bridge Street	Zinkewich, M.
" "	Fox Head Inn Clifton Hill	Fox, Mrs. E. M.
" "	General Brock Hotel 1685 Falls Avenue	General Brock Hotel Company Limited
" "	Imperial Hotel 290 Bridge Street	Doyle, E. J.
" "	King Edward Hotel 659 Clifton Avenue	Davey Hotels Limited
" "	Maple Leaf Hotel 1831 Ferry Street	McGarry, T. W.
" "	Metropole Hotel 276 Bridge Street	Cohen, M. and Dawe, W. A.
" "	Niagara Hotel 1008 Centre Street	Campaigne, C. W.
" "	Park Hotel Queen Victoria Park	Niagara Parks Commission
" "	Prospect Hotel 1951 Main Street	Prospect House Limited
" "	Rapids Hotel 67 River Road	Pepe, J.
" "	Royal Inn 152 Bridge Street	Vukmanich, C.
" "	Venetian Hotel 1355 Ferry Street	Briand, J.
NIAGARA-ON-THE-LAKE	American Hotel	Hartzig, M.
"	Prince of Wales Hotel	Prysko, J. H.
"	Riverside Hotel	Stevens, B.
"	Barbary Lodge (New) Regent Street	Maidlow, C. J. and M. A.
NIPIGON	International Hotel Main Street	DeFazio, Mrs. M.
"	Nipigon Inn	Hogan, W.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
NIPIGON	Ovilio Hotel Front & Third Streets	Gentile, D.
NOELVILLE	Lafayette Hotel	Daoust, A.
"	LaSalle Hotel	Bergeron, E.
NORMAN	Norman Hotel Bay & Ontario Streets	Rychlo, A.
NORTH BAY	Continental Hotel 72 Main Street	Kerrigan, S. A.
" "	Empire Hotel Fraser & McIntyre Sts.	Empire Hotel Co. of Timmins Limited
" "	King George Hotel 1 Ferguson Street	Brazeau, W.
" "	Parkview Hotel 14 Oak Street, West	Chirico, A.
" "	St. Regis Hotel Main & Klock Avenue	Mason, W. E.
NORTHBROOK	Northbrook Hotel	Courneya, V. C. and E. J
NORVAL	Hollywood Hotel Highway No. 7	Ward, Mrs. E. F.
OAKVILLE	Halton Inn 48 Colborne Street	Megaffin, B. A.
"	New Murray Hotel	Gordon, J. R.
"	Oakville Hotel Navy & Colborne Streets	Gray, G. D.
"	Oakville Inn	Busk, N. O.
OBA	Alexander Hotel	Stoyka, A.
"	Oba Hotel	Vihonen, L. P.
ORIENT BAY	Royal Windsor Lodge	Frazer, A. E. and Beamish, J. H.
ORLEANS	Orleans Hotel	Laflamme, E.
OSHAWA	Cadillac Hotel 394 Simcoe Street, South	Vassar, S. S.
"	Central Hotel 9 King Street, West	Henry, E. M., McCrohan, K., Chambers, A. L. and McCrohan, M.
"	Commercial Hotel 29 King Street, West	Commercial Hotel (Oshawa) Limited
"	Genosha Hotel 70 King Street, East	Hotel Genosha Limited (Oshawa)
"	Queen's Hotel 67 Simcoe Street, West	McTaggart, Mrs. G. M.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
OTTAWA	Albion Hotel 1 Daly Avenue	Touhey, W. J.
"	Alexandra Hotel 352 Bank Street	Alexandra Operating Co. of Ottawa Limited
"	Belle Claire Hotel 227 Queen Street	MacMillan, H. C.
"	Belmont Hotel 90 Lyon Street	Estate of Thomas Fleming
"	Bytown Inn 71 O'Connor Street	C. J. Smith Estate Company Limited
"	Canada Hotel 62 Murray Street	Menard, Mrs. A. D.
"	Capital Hotel 202 Rochester Street	Antrim Hotels Limited
"	Capitol Hotel 221 Rideau Street	Weiss, B.
"	Carleton Hotel 223 Armstrong Street	Viau, J. A. P. and Starr, H. W. J.
"	Castor Hotel 451 Sussex Street	Chevrier, E.
"	Chateau Lafayette 44 York Street	Bouris, J., G., and M.
"	Chateau Laurier Rideau Street	Canadian National Railways
"	City Hotel 46 Clarence Street	Raymond, E. J.
"	Commercial Hotel 73 York Street	Viau, E.
"	Dominion Hotel 28 York Street	Cyr, E.
"	Duke Hotel 99 Duke Street	Reshitnyk, D., Sabat, W. and Liabiuk, P.
"	Dunkirk Hotel 64 Metcalfe Street	Dunkirk Hotel Limited
"	Elmdale Hotel 1084 Wellington Street	Estate of Ernest Laroche
"	Gilmour Inn 363 Bank Street	Gilmour Inn Limited
"	Grad's Hotel 143 Cambridge Street	Grad's Hotel (Ottawa) Limited

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
OTTAWA	Grand Hotel 555 Sussex Street	Delorme, L.
"	King Edward Hotel 599 Sussex Street	Terminal Hotels Limited
"	La Salle Hotel 245 Dalhousie Street	Lepine, Mrs. O.
"	Lord Elgin Hotel 100 Elgin Street	Ford Hotel Company of Ottawa Limited
"	Pacific Hotel 171 Broad Street	Dore, L.
"	Palace Hotel 181 Broad Street	Viau, T.
"	Plaza Hotel 223 Sparks Street	Plaza Hotel Company Limited
"	Prescott Hotel 371 Preston Street	Prescott Hotel Company Limited
"	Rex Hotel 42 Clarence Street	Barbeau, O.
"	Richelieu Hotel 62 York Street	Lepine, Mrs. C.
"	Rideau Hotel 191 Rideau Street	Viau, O.
"	Ritz Hotel 352 Somerset Street, West	Ottawa Ritz Hotel Company Limited
"	Royal Hotel 255 Rideau Street	Davis Hotel Company Limited
"	Russell Hotel 596 Sussex Street	Russell Operating Company Limited
"	St. Charles Hotel 200 Queen Street	St. Charles Hotel Limited
"	Stirling Hotel 123 Stirling Avenue	Stirling Hotel (Ottawa) Limited
"	Vendome Hotel 844 Somerset Street, W.	Kingsbury, G. R.
"	Victoria Hotel 34 Murray Street	Charos, P. G.
"	Windsor Hotel 35 Metcalfe Street	Windsor Hotel (Ottawa) Limited
PAINCOURT	Central Hotel	King, Mrs. G.
"	Dover Hotel	Trahan, V. S.
PALMERSTON	Hess Hotel	Hammond, Mrs. R. E.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
PALMERSTON	Queen's Hotel Queen Street	Jaegar, L.
PARIS	Arlington Hotel 106 Grand River Street	Ealand, Misses E. M. and M. B.
"	Canadian Hotel 27 Dunfries Street	Robb, W. B. Sr.
"	Hayes Hotel 26 Mechanic Street	Hayes, G. E.
"	New Royal Hotel 11 Mechanic Street	Hynes, J. W.
PARRY SOUND	Kipling Hotel Emily Street	Empire Hotel Company of Timmins Limited
" "	New Belvedere Hotel	Peebles, A. G. and Kehoe, C. W.
PEFFERLAW	Belvedere Hotel	McMillan, G. I.
PELEE ISLAND	Pelee Hotel	Holtze, L. C.
PEMBROKE	Copeland Hotel 48 Pembroke Street, West	Copeland Hotel Company Limited
"	Leland Hotel 196 Albert Street	Needham, D. J.
"	Mackey House 185 Pembroke Street, E.	Costin, E. R.
"	Pembroke Hotel 200 Pembroke Street, W.	Teevens, J. B.
"	Windsor Hotel 147 McKay Street	Cecile, Mrs. B.
PENETANGUISHENE	Brule Hotel Main Street	Beauchamp, N.
"	Canada House 85 Main Street	Allen, J. D. and Renton, A. E.
"	Northern Hotel Main Street	Weegar, C. W. and Smart, W. E.
PERTH	Imperial Hotel 25 Wilson Street	Lamber, E. J., Miss Mary E. and Wallace, Mrs. M. J.
"	Perth Hotel 1 Gore Street, West	Duby, H. D.
"	Revere Hotel 78 Foster Street	Salisbury, S. R.
PETERBOROUGH	American Hotel 189 Hunter Street	Sheedy, F. K. and E. J.
"	Champlain Hotel 173 Charlotte Street	McGillis Hotel Co. Ltd.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
PETERBOROUGH	Empress Hotel 131 Charlotte Street	Empress Hotel (Peterborough) Limited
"	Grand Hotel 295 George Street	Emerson, L. S. and Crawford, S. B.
"	King George Hotel 172 Simcoe Street	Keeler, F. B. and Tanner, R.
"	Montreal House 282 Aylmer Street	Loucks, J.
"	Queen's Hotel 181 Simcoe Street	King, N. D. and V. L.
"	Windsor Hotel 144 Brock Street	Johnston, Mrs. S. M.
PETERSBURG	Blue Moon Hotel	Forler, H. G.
PHELPSTON	Phelpston Hotel	Kenny, D. J.
PICKERING	Rouge Valley Inn R.R. 2,	Griffin, Mrs. P. F.
PICKLE CROW	Pickle Crow Hotel	Pickle Crow Hotel Ltd.
PICKLE LAKE	Pickle Lake Hotel (Central Patricia P.O.)	Koval, K.
PICTON	Globe Hotel Main Street	Cox, J. J.
"	Royal Hotel Main Street	Healy, F. E. and E. J.
"	Rickarton Castle Hotel (New)	Rickarton Castle Hotel Limited
PIGEON RIVER	Pigeon River Hotel	Hurtig, M.
PINEWOOD	Home Hotel (New)	Jodoin, T. J.
PLANTAGENET NORTH	Commercial Hotel	Gauthier, W. J.
PLANTAGANET SPRINGS	Union Hotel (New)	Mayer, Mrs. S.
POINT ALEXANDER	Byeways Lodge (New)	Dawson, G. B., Mrs. Gladys and Astley, Mrs. E. E.
POINT EDWARD	Balmoral Hotel 123 Michigan Avenue	Mara, F. J.
PORCUPINE	Palmour Hotel 12 King Street	Perla, D.
PORQUIS JUNCTION	Canada Hotel	Tremblay, S.
PORT ARTHUR	Canadian Northern Hotel 130 Cumberland Street, S.	Erikkila, I. A. and Milton, P.
" "	Hodder Avenue Hotel 479 Hodder Avenue	Sisco, J.
" "	Kimberley Hotel 191 Pearl Street	Burstrom, G.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
PORT ARTHUR	Lakeland Hotel 84 Cumberland Street, S.	Domanski, J.
" "	LaPrade Hotel 102 Cumberland Street, S.	LaPrade, J. T.
" "	Mariaggi Hotel 28 Water Street, South	Hurtig, M.
" "	New Ontario Hotel 219 Arthur Street	Arthur, Mrs. M.
" "	Prince Arthur Hotel 9 Cumberland Street, N.	Canadian National Railways
" "	Princess Hotel 76 South Cumberland St.	Filipovic, J.
" "	Vendome Hotel 127 Cumberland Street, S.	Burstrom, J. C.
" "	Waverley Hotel 54 North Cumberland St.	Pasternak, William
" "	Royalton Hotel 248 Bay Street	Baccari, Mrs. C.
PORT COLBORNE	Belmont Hotel King & Charlotte Streets	Holman, A. A.
" "	Colonial Hotel 124 West Street	Milligan, H. F.
" "	Commercial Hotel 240 West Street	Shibley, J. H.
" "	Gas Line Hotel R.R. 1	White, O. W.
" "	Queen's Hotel 19 Omar Street	Radvilas, J.
" "	Ritz Hotel 201 Welland Street	Conn, Mrs. O. L.
" "	Star Hotel 264 West Street	Sheppard, W. J.
PORT DALHOUSIE	Austin Hotel 16 Lock Street	Austin Hotel Limited
" "	Embassy Hotel	Long, L.
" "	Port Hotel 6 Front Street	Chaikowski, D.
PORT DOVER	Commercial Hotel Main Street	Shanks, H. and Manning, E. W.
" "	Norfolk Hotel Main Street	Gamble, C. E.
" "	Erie Beach Hotel	Schneider, H. J.
PORT ELGIN	Arlington Hotel Goderich Street	McGrath, E.
" "	Queen's Hotel	McPherson, R.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
PORT HOPE	Ontario Hotel 30 Ontario Street	Powell, B. H.
" "	Queen's Hotel 81 Walton Street	Overholt, H. F.
" "	St. Lawrence Hotel 91 Walton Street	Halick, J.
PORT MAITLAND	Maitland Arms Hotel	Murphy, A. C.
PORT ROWAN	Baycliffe Hotel Main Street	Krestel, John
" "	St. Charles Hotel Main Street	Vanthuyne, A.
PORT SEVERN	Bayview House	Brown, Mrs. E. M.
PORTSMOUTH	Lake View Manor Hotel 110 Young Street (New)	Eves, J. C. A.
"	Portsmouth Hotel 402 Young Street	Beaupre, P. M.
PORT STANLEY	Clifton Hotel	Sturgis, C. E.
" "	Hill Crest Inn	Shipp, Mr. and Mrs. S. P.
" "	Plaza Hotel William Street	Kohn, S.
" "	Why Not Hotel	Weir, Mrs. D. B.
POWASSAN	Windsor Hotel	LaLonde, C. J.
PRESCOTT	Daniels Hotel	Korsa, N.
"	Queen Alexandra Hotel King Street	Horan, E. T. and J. T. and White, E. T.
PRESTON	Central Hotel 868 King Street	Taylor, S. A. and Dawe, W. A.
"	Commercial Hotel 991 King Street	Forler, H. G.
"	Kress Hotel (New) King & Fountain Streets	Graham, E. P.
"	Queen's Hotel 1102 King Street	Schmalz, A. J.
"	Sulphur Springs Hotel 240 King Street	Wexler, Jas.
PUCE	Emery's Corners Hotel R.R. 1	Anton, J.
RAINY RIVER	Canadian Northern Hotel Atwood Avenue	Popowich, W.
" "	Rainy River Hotel	Makarchuk, Mrs. A.
RAMORE	Commercial Hotel	Bienvenu, J.
"	Ramore Hotel Railway Street	Delves, G. W.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
RED LAKE	McCuaig Hotel	McCuaig (Red Lake) Hotel Co. Ltd.
" "	Red Lake Inn (New)	New Red Lake Hotel Company Limited
RED ROCK	Red Rock Inn	Brompton Pulp and Paper Company Limited
RIDGETOWN	Arlington Hotel	Siskind, J. A.
RIDGEWAY	McLeod House Ridge Road	Rice, P. A.
"	Ridge Inn Hotel Ridge & Garrison Roads	Kisielis, A.
RIVER CANARD	Marion Inn	Dumouchelle, Mrs. P.
" "	Palm Beach Hotel	Desjardin, Mrs. A.
RIVERSIDE	Edgewater Hotel 4912 Riverside Drive	Thomas' Inn Limited
"	Island View Hotel 3342 Riverside Drive	Island View Hotel Company Limited
"	Menard's Inn 196 Riverdale Avenue	Menard, Mrs. V.
"	Lauzon Stop Inn 3340 Wyandotte Street	Mandich, Geo.
"	Rendezvous Hotel 7324 Riverside Drive	Vuicic, C.
RIVER VALLEY	Golden Rose Hotel Main Street	Giroux, A. J.
ROCKLAND	King George Hotel	Gamelin, A.
"	Rockland Hotel	Viau, A.
"	Russell Hotel	Menard, F. X.
ROSSEAU	Monteith Inn	Shopsowitz, Mrs. J.
ROSSPORT	Rossport Inn	Anderson, O.
ROUGE HILLS	Glen Eagles Manor	Chizen, M. and Bilida, J.
ROYAL MUSKOKA POST OFFICE	Royal Muskoka Hotel	Muskoka Lakes Navigation & Hotel Co. Ltd
RUSSELL	Commercial Hotel	Kiedyk, W. and Mrs. M.
"	Russell Hotel Mill Street	Contant, Arthur
ST. AGATHA	Prince of Wales Hotel	Eichelinger, E. C. and Winterholt, C. F.
ST. ALBERT	Russell House	Lauzon, A.
ST. ANNE DE PRESCOTT	Commercial Hotel	Diotte, R.
ST. CATHARINES	City Hotel 131 King Street	Taube, O. and Cohen, B. M.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
ST. CATHARINES	Esquire Hotel 88 Queenston Street	Aitken, Mrs. M
" "	Franklin Hotel 2 Pelham Street	Rosar, F. N.
" "	Garden City Inn 19 James Street	Springford, R.
" "	International Hotel 84 James Street	Garbutt, Mrs. I. N.
" "	Leonard Hotel 259 St. Paul Street	St. Catharines Hotels Ltd.
" "	Lincoln Hotel 288 St. Paul Street	McConnell, Mrs. N. R.
" "	Mansion Hotel 5 William Street	Mansion Hotel (St. Catharines) Limited
" "	New Murray Hotel 58 James Street	Lachapelle, L. A.
" "	New Statler Hotel 70 James Street	Harding, R.
" "	Ontario Hotel 244 Ontario Street	Bagdasarian, M.
" "	Queensway Hotel 8 Queenston Street	Queenston Hotels Limited
" "	Russell Hotel 203 St. Paul Street	O'Keefe, W.
" "	Welland House 30 Ontario Street	Welland House Limited
" "	York Hotel 170 York Street	York (St. Catharines) Hotel Limited
ST. CHARLES	St. Charles Hotel	Henderson, E. E. and Mrs. B.
ST. CLEMENTS	St. Clements Hotel Main Street	MacDermott, G.
ST. EUGENE	Windsor Hotel	Landriault, A.
ST. ISIDORE DE PRESCOTT	Central Hotel	Lalonde, C.
ST. JACOBS	Dominion Hotel King Street	Sieling, H. A.
ST. JOACHIM	St. Joachim Hotel	Rockburn, H.
ST. ONGE	Commercial Hotel	Richer, John

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
ST. THOMAS	Brunswick Hotel 925 Talbot Street	Collins, Mrs. M.
" "	Empire Hotel 664 Talbot Street	Watts, Mrs. W.
" "	Grand Central Hotel 332 Talbot Street	Hunter, H. C.
" "	International Hotel 825 Talbot Street	Service Hotels Company Limited
" "	Park House Hotel 93 Wilson Avenue	Cornfoot, D. H.
" "	Royal Hotel 218 Talbot Street	Paddon, R. C.
" "	Queen's Hotel 741 Talbot Street	Roulston, W. J.
" "	Scott's Hotel 755 Talbot Street	Scott, Mrs. D.
" "	Talbot Hotel 593 Talbot Street	Conley, Mrs. M.
" "	Taylor's Hotel 701 Talbot Street	Taylor, A. A.
	Western Hotel 87 St. Catharines Street	Turner, D. J. L. and Hahn, G. K.
SALTFLEET TOWNSHIP	Derby Inn Niagara Highway & Walter Avenue, (Mailing Address Sub-station No. 28 Hamilton)	Neichenbauer, E. and Varyu, N.
SANDWICH EAST	Airport Inn Walker Rd. & Highway 2	Sexton, A.
" "	Canada Hotel 5923 Tecumseh Road	Dengel, Mrs. K.
" "	Samson Hotel 4715 Tecumseh Road	Fleming, John R.
" "	Lappan Hotel 1101 Walker Road	Lappan, R. J.
SANDWICH WEST	Sand Hill Hotel R.R. 1	Bessette, H.
" "	Elmwood Hotel 1899 Dougall Avenue	Elmwood Hotel Limited
SARNIA	Colonial Hotel 156 North Christina St.	Morrison, J. F. Estate of
"	McFee's Hotel 182 Cromwell Street	McFee, Mrs. A.
"	Morden Hotel 163 Front Street, North	Morden, H. E.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
SARNIA	Sarnia Hotel 234 Front Street, North	Martin, H. D.
"	Vendome Hotel 124 North Front Street	MacFarlane, G. B.
"	Windsor Hotel 210 North Christina St.	Hotel Windsor of Sarnia Limited
SARSFIELD	Sarsfield Hotel	Raymond, R.
SAULT STE. MARIE	Algoma Hotel 285 Queen Street, East	Cohen, W. M. N.
" " "	Algonquin Hotel 864 Queen Street, East	Paterson, P. W.
" " "	Central Hotel 458 Queen Street, East	Breton, Mrs. L.
" " "	Empire Hotel 196 James Street	Milkovich, V. and Sambol, J.
" " "	Grand View Hotel 331 Queen Street, East	Brunette, F.
" " "	International Hotel 141 Huron Street	Signoretti, A.
" " "	Lock City Hotel 874 Queen Street, East	Manchulenko, Metro
" " "	New American Hotel 602 Bay Street	Camaroli, E.
" " "	New Ontario Hotel 89 Hudson Street	Juzwow, J.
" " "	New Toronto Hotel 193 James Street	Culina, J.
" " "	Nicolet Hotel 304 Albert Street, West	Saari, Mrs. F. A.
" " "	Royal Hotel 2 Queen Street, East	Keenan, B. P.
" " "	Victoria Hotel 82 Pim Street	Chow, H.
" " "	Windsor Hotel 615 Queen Street, East	Sault Windsor Hotel Ltd
SAVANT LAKE	Savant Hotel	Haverluck, J.
SCARBORO	Alpine Hotel 1102 Kingston Road (Toronto 13)	McLarney, W. M. and McNamara, Mrs. F. A.
"	Mansion House 3313 Danforth Avenue	Mansion House (Toronto) Limited
"	White Castle Inn (New)	White Castle Inn Limited
SCARBORO JUNCTION	Scarboro Hotel 8 Danforth Road	Trusler, M. S.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
SCHUMACHER	Eldorado Hotel 12 First Avenue	Pupich, C. Jr.
"	Emporium Hotel 20 First Avenue	Bosak, Peter
"	Gold Range Hotel 44 First Avenue	Svaluto, A.
"	Grandview Hotel 40 First Avenue	Buchar, Mrs. M.
"	Pearl Lake Hotel 53 First Avenue	Klisanich, F.
"	Recreation Hotel 32 First Avenue	Bergamin, Pietre
"	Schumacher Hotel 30 First Avenue	Zupancic, J.
"	Tisdale Hotel 54 First Avenue	Pecanic, N.
SEARCHMONT	Searchmont Hotel	Sundstrom, P.
SELKIRK	Union Hotel Main & Erie Streets	Cole, H. M.
SHANNONVILLE	Wayside Inn	Ryan, Mrs. Z. H. and Power, Miss M.
SHEBANDOWAN	McKinnon's Inn	McKinnon, Mrs. M. B.
SIMCOE	Battersby Hotel 13 Robinson Street	Peer, H. E.
"	Governor Simcoe Hotel 413 Norfolk Street, North	Leask, F. A.
"	Melbourne Hotel 39 Robinson Street	Challenger, D. R. and C. E.
"	Norfolk Hotel 41 Norfolk Street	Dumsha, J.
"	Queen's Hotel 110 Robinson Street	Thompson, L. S.
SIOUX LOOKOUT	Clarke's Hotel 62 Front Street	Clarke, Mrs. A.
" "	Lakeview Hotel 48 Front Street	Spence, A. T.
" "	Russell Hotel 158 King Street	Ratcliffe, Robt. R.
SIOUX NARROWS	Sioux Narrows Hotel (New)	Anderson, E. C.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
SMITHS FALLS	Arlington Hotel 21 Beckwith Street	Hurst, W. C. and Walker, N. J.
“ “	Lee Hotel 72 Daniel Street	Lee, G. J.
“ “	Rideau Hotel 20 Beckwith Street	Powers, Mrs. A.
	Russell Hotel 2 Beckwith Street	Russell Hotel (Smiths Falls) Limited
SMOOTH ROCK FALLS	Elite Hotel	Pilipchuk, Mrs. E. and Robokon, S.
“ “	Union Hotel	Belanger, J. A.
SOUTHAMPTON	Southampton Hotel	Smith, L. A.
“	Walker House High Street	Mahon, H.
SOUTH PORCUPINE	Airport Hotel Bruce Avenue	Moskal, W.
“ “	Central Hotel 84 Bruce Street	Cimetta, Mrs. M.
“ “	Empress Hotel 89 Bruce Street	Cecconi, A., L. and B.
“ “	Goldfield's Hotel 136 Golden Avenue	Krasevac, A. and Fera, J
“ “	Gold Range Hotel 85 Golden Avenue	Dagenais, Mrs. Maude
SOUTH RIVER	Queen's Hotel	Percival, T. A.
SOUTH WOODSLEE	Elm Inn Hotel	Ducharme, E.
SPANISH STATION	Huron Hotel	Ferris, M. E.
SPENCERVILLE	Spencerville Hotel	Reddick, G. W.
SPRINGFIELD	Glen-Rite Hotel Main Street	Annett, L. G.
STAMFORD	Montrose Hotel R.R. 2	Gambell, W. A.
“	Queen's Hotel	Lamkin, A. W.
“	Red Casque Inn St. Paul Avenue	Holman, A. A.
“	Uncle Sam's Hotel R.R. 1 Lundy's Lane	Manos, H.
STANLEY	Stanley Hotel (New)	Smith, Clinton and Clifton

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
STEVENSVILLE	Commercial Hotel R.R. 2, Snyder	Willick, Mrs. R. E.
"	Stevensville Hotel	Hawkins, E. J.
STOCO	Ontario House Hotel	Hughes, G. B.
STONECLIFF	Stonecliff Hotel	McKechnie, A.
STONEY CREEK	Da-Nite Hotel	Geekie, W.
" "	Jess Hotel R.R. 5, Hamilton	Jess, C. T.
" "	Pines Hotel 145 Lake Avenue	Phoenix, W. E. and Mrs. W. E.
STONEY POINT	Aubin Hotel	LeFaive, A.
" "	Stoney Point Hotel	Bisnaire, J.
STRATFORD	Avon Hotel 388 Downie Street	Kerrigan, S. C.
"	Dominion Hotel 391 Downie Street	Wilton, R.
"	Empire Hotel 164 Downie Street	Dyke, A. E.
"	Kent Hotel 209 Waterloo Street	Graham, Mrs. O. M. and W. H.
"	Mansion House 101 Wellington Street	Estate of J. H. Killer
"	Queen's Hotel 161 Ontario Street	Pinkney, D. McG.
"	Windsor Hotel 23 Albert Street	Litt, J. W.
STRATTON	Stratton Hotel	Landry, E.
STURGEON FALLS	Chalfonte Hotel King Street	Boyer, E. D.
" "	King Edward Hotel King Street	Ghiandoni, R. G.
" "	Queen's Hotel Main Street	Dompierre, W. E.
" "	Windsor Hotel	Estate of Mrs. H. Chaput
SUDBURY	Balmoral Hotel 2 Elm Street, East	Balmoral Hotel Co. of Sudbury Limited
"	Coulson Hotel 68 Durham Street	Hotel Coulson Limited
"	Frontenac Hotel 14 Durham Street, North	Davis, C. and Estate of A. Turpin

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
SUDBURY	Frood Hotel 237 Kathleen Street	Perkovich, N.
"	International Hotel 201 Kathleen Street	Borovich, P.
"	King Edward Hotel 88 Elgin Street	Johnson, C.
"	Montreal Hotel 70 Elm Street, East	Pilon, J. H.
"	National Hotel 477 Notre Dame Street	Kingsley, F.
"	New Ontario Hotel 206 Elgin Street	Ghiandoni, E.
"	New Queen's Hotel 18 Borgia Street	Riddell Estates Limited
"	Nickel City Hotel 252 Hazel Street	Fabbro, E.
"	Nickel Range Hotel 10 Elm Street, West	Nickel Range Hotel (Sudbury) Limited
"	Paris Hotel 24 Borgia Street	Trottier, O. and Mrs. E.
"	Prospect Hotel 180 Elgin Street	Chyka, J.
"	Sudbury Hotel 300 Elgin Street	Moses, H.
SUNDRIDGE	Bernard Hotel Main Street	Caswell, D. J.
SUTTON	Mansion House High Street	Jamieson, S. J.
"	Sutton Inn High Street	Miller, E.
SWASTIKA	Swastika Hotel P.O. Box 10	Boisvert, J.
TAMWORTH	Queen's Hotel	Davison, R. H.
TAVISTOCK	Arlington Hotel	Millington, E.
"	Oxford Hotel Woodstock Street	Liebler, A. E.
TECUMSEH	Golden House 61 Tecumseh Road	Pitre, A. P.
"	Paris Hotel 25 Tecumseh Road	Laramie, L.
"	Renaud's Inn 103 Tecumseh Road	Fraba, C.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
TECUMSEH	Tecumseh House 10 Tecumseh Road, West	Hebert, W. A.
TEMAGAMI	Goddard's Place Hotel Highway No. 11	Goddard, E. F.
"	Ronnoco Hotel	Ontario Northland Transportation Commission
THAMESVILLE	Tecumseh Hotel	Walters, C. E.
THEDFORD	Holwell House Main Street	Powell, G. H.
THESSALON	O'Connor Hotel Main Street	Luhta, Wm. and Mitchell, Lorne
"	Sinton Hotel Main Street	Sinton, S. M.
THOROLD	Pine Hotel 141 Pine Street, South	Kociulym, J.
"	Summit House 4 Front Street	Ciuniak, W. and Bruch, M.
"	Thorold Inn 54 Front Street	Kekic, P.
"	Welland Hotel 46 Front Street	Shanks, M. L.
TILBURY	Empire Hotel Queen Street	Estate of Barnaby Ballard
"	Recess Hotel Queen Street	Jarkowiec, F. and Sholomicki, J.
TILLSONBURG	Arlington Hotel Broadway Street	Kohl, C. W.
"	Imperial Hotel 30 Broadway Street	Grant, Chas. E.
"	Royal Hotel 11 Broadway Street	Hahn, G. K.
TIMMINS	Albert's Hotel 52 Mountjoy Street, South	Leone, G. and Teidermann, Wm.
"	Algoma Hotel 13 Spruce Street, South	Tremblay, J. A.
"	Ambassador Hotel 84 Third Avenue	Boutron, K.
"	Balmoral Hotel 10 Mountjoy Street, North	Horvat, J.
"	Empire Hotel Spruce Street & Fourth Avenue	Empire Hotel Company of Timmins Limited

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
TIMMINS	Grand Hotel 56 Third Avenue	Cimetta, N. and Mrs. M.
"	G. V. Hotel 94 Sixth Avenue	Varteniuk, G.
"	International Hotel 14 Cedar Street, North	Diemert, G. M.
"	Kingston Hotel 3 Third Avenue	Ursaki, P. and Irimie, V.
"	Lady Laurier Hotel 34 Second Avenue	Lady Laurier Hotel Ltd.
"	Maple Leaf Hotel 8 Balsam Street, South	Kotze, P.
"	Mount Royal Hotel 13 Cedar Street, South	Curik, N. and Moskol, W.
"	Northern Hotel 106 Third Avenue	Vaillancourt, N.
"	Riverview Hotel 4 Mattagami Boulevard	Vaillancourt, O. and E.
"	Russell Hotel 2 Wilson Avenue	Hass, Mrs. I.
"	St. Charles Hotel 16 Cedar Street, South	Vaillancourt, N. Lyrette, G. and Robillard, A.
"	Standard Hotel 102 Pine Street, South	Galipeau, Mrs. E. M.
"	Three Star Hotel 13 Maple Street, North	Plut, A.
"	Timmins Hotel 56 Fourth Avenue	Orr, Mrs. A.
"	Welcome Hotel 7 Spruce Street, South	Denesevitch, Mrs. O. and Lavlich, L.
"	Windsor Hotel 8 Cedar Street, South	Windsor Hotel (Timmins) Limited
TODMORDEN	Todmorden Hotel 1067 Broadview Avenue	Hamer, A. and Mrs. M.
TORONTO	Adelaide Hotel 127 Simcoe Street	Sniderman, H. A.
"	Alexandra Hotel 102-4 Queen Street, West	Humeniuk, J.
"	Albany Hotel 158 King Street, East	Diakiw, J.
"	Angelo's Hotel 144 Chestnut Street	Belfanti, A.
"	Avion Hotel 434 Gerrard Street, East	Campbell, W. G. and Garrity, D.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
TORONTO	Avonmore Hotel 276 Jarvis Street	Torno, E.
"	Babloor Hotel 1165 Bay Street	Crooks, G. L.
"	Baltimore Hotel 90 York Street	Perille, J. L.
"	Barclay Hotel 174 Front Street, West	Front & Simcoe Limited
"	Benlamond Hotel 666 Kingston Road	Harris, Mrs. R., V. and W.
"	Beresford Hotel 250 Queen Street, East	Waxman, Estate of A. and Glass, M. and A.
"	Beverley Hotel 240 Queen Street, West	Markle, W. W.
"	Biltonia Hotel 147 Dundas Street, East	Bilton, E. E.
"	Bloor Hotel 1313 Bloor Street, West	Sparkes, R. P.
"	Breadalbane Hotel 2-8 Breadalbane Street	Breadalbane Hotel Ltd.
"	Broadview Hotel 106 Broadview Avenue	Dunlop, A. E. Estate of
"	Brockton Hotel 1543 Dundas Street, West	Brockton Hotel Limited
"	Brunswick Hotel 481 Bloor Street, West	Davidson, Mrs. K. C., J. C. and W. B.
"	Cameron Hotel 408 Queen Street, West	Goldstein, M.
"	Canada Hotel 134 Sherbourne Street	Wade, L. M.
"	Chateau Dufferin Hotel 1655 Dufferin Street	Chateau Dufferin Limited
"	Claremont Hotel 734 Queen Street, West	Wade, F. M.
"	Clifton Hotel 298 Queen Street, West	Bobchenko, P.
"	Clinton Hotel 693 Bloor Street, West	Clinton Hotel Limited
"	Columbia Hotel 2 Ossington Avenue	Walker, W. J.
"	Commerce Hotel 154 Danforth Avenue	Walton, Mrs. F. B. and J. A.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
TORONTO	Commodore Hotel 2112 Danforth Avenue	Hershoran, H.
"	Coxwell Inn 1544 Danforth Avenue	Beer, F. and Estate of Thomas Hare
"	Derby Hotel 393 King Street, East	Derby Hotel (Toronto) Limited
"	Danforth Hotel 2763 Danforth Avenue	Danforth Hotel Company Limited
"	Dennis Hotel 238 Broadview Avenue	Melnick, J.
"	De France Hotel 30 Hayden Street	Hrytzko, M. and Korenowsky, W.
"	Dominion Hotel 500 Queen Street, East	Shore, Richard A.
"	Drake Hotel 1150 Queen Street, West	Lundy, M.
"	Duke of Connaught Hotel 458 Queen Street, West	Dyba, M.
"	Duke of York Hotel 1225 Queen Street, East	Perkins, F. J.
"	Edgewater Hotel 10 Roncesvalles Avenue	Onazuk, M., Dimitroff, C. and Harris, A.
"	Edison Hotel 1 Gould Street	New Empress Hotel Co.
"	Edwin Hotel 650 Queen Street, East	Sher, D. and Saltzman, S.
"	Elliott Hotel 63 Shuter Street	Elliott Hotel Limited
"	Embassy Hotel 7 Bellair Street	Embassy Club Limited
"	Eton Hotel 710 Danforth Avenue	Heffering, H.
"	Everene Hotel 467 Jarvis Street	Edmonds, E.
"	Forbes Hotel 72 Shuter Street	Forbes, J. D.
"	Ford Hotel 595 Bay Street	Ford Hotel Co. of Toronto Ltd.
"	Gerrard Hotel 293 Gerrard Street, East	Estate of D. W. Megaffin

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
TORONTO	Gladstone Hotel 1214 Queen Street, West	Gladstone Hotel Limited
"	Good Hotel 572 Bay Street	Good, Mrs. P.
"	Graymar Hotel 31 Jarvis Street	Meagher, E. J.
"	Gregory Hotel 17 Adelaide Street, West	Hotel Gregory Limited
"	Grovenor Hotel 491 Yonge Street	Hemstead, C.
"	Hunt's Savarin Hotel 336 Bay Street	Hunt's Limited
"	Imperial Hotel 54 Dundas Street, East	Newman, J.
"	Isabella Hotel 556 Sherbourne Street	Estate of K. B. Heisey
"	Jarvis Hotel 103 Jarvis Street	Ontrot, Mrs. B.
"	King Edward Hotel 37 King Street, East	King Edward Hotel (Toronto) Limited
"	Lansdowne Hotel 1744 Dundas Street, West	Lansdowne Enterprises Limited
"	LaSalle Hotel 1215 Bloor Street, West	Ryan, F. and Mrs. K.
"	Linsmore Hotel 1298 Danforth Avenue	Bloom, M.
"	Maple Leaf Hotel 955 Gerrard Street, East	Sullivan, E. J.
"	McCarron Hotel 115 Victoria Street	McCarron, J. J.
"	Merchant's Hotel 94 Front Street, East	Harris, Mrs. A.
"	Metropole Hotel 141 King Street, West	Atlas Hotel Co. Ltd.
"	Monarch Hotel 12 Clinton Street	Worters, R.
"	Morrissey Hotel 817 Yonge Street	Morrissey, W. F.
"	Municipal Hotel 67 Queen Street, West	Mintz, I.
"	National Hotel 249 King Street, East	Merrydew, G.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
TORONTO	New Statler Hotel 112 Queen Street, West	Variety Hotels Limited
"	New Strathcona Hotel 60 York Street	Bazar, W. and Mazurenko, D.
"	New Windsor Hotel 124 Church Street	Mullen, J. G.
"	Noah's Ark Hotel 2777 Danforth Avenue	Convey, E. J. Jr.
"	Orchard Park Hotel 1684 Queen Street, East	General Hotel Company Limited
"	Oxford Hotel 30 King Street, West	Ticonic Corporation Ltd.
"	Palace Hotel 950 King Street, West	Finnigan, Mrs. L. M.
"	Paramount Hotel 309 Spadina Avenue	Starkman, L.
"	Parkdale Hotel 1302 Queen Street, W.	McDonald, J. G., Mathias, H. E., Misses M. E. and K. M. and Calvert, Mrs. E. F.
"	Park Plaza Hotel 170 Bloor Street, West	Park Plaza Corporation Limited
"	Parkview Hotel 935 Queen Street, West	Estate of J. F. Burke
"	Piccadilly Hotel 106 King Street, West	Piccadilly Hotel Company Limited
"	Pine Tree Hotel 650½ Queen Street, West	Fineberg, A.
"	Prince George Hotel 91 York Street	Model Hotel Company Limited
"	Rex Hotel 3 St. Patrick Street	Hertzman, L.
"	Rideau Hotel 335 Jarvis Street	Fabian, P., Solski, J. Maksymonko, D. and Bilious, W.
"	Riviera Hotel 197 King Street, East	Mislowski, Earl and A. and Dublanski, C.
"	Rondun Hotel 2238 Dundas Street, West	Dennie, J. M., E. F., L. N., C. A. and Thorndike, J. S. Sr., J. S. Jr. and R.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
TORONTO	Rose Hotel 78 Centre Avenue	Berrin, I.
"	Rosedale Hotel 1145 Yonge Street	Gendron, A. S.
"	Royal Cecil Hotel 202 Jarvis Street	Dufferin Construction Company Limited
"	Royal Oak Hotel 376 Dundas Street, East	Taylor, F. J., C. J., and Sharpe, R. J.
"	Royal York Hotel 100 Front Street, West	Canadian Pacific Railway Company
"	St. Regis Hotel 392 Sherbourne Street	St. Regis Hotel Limited
"	Scholes Hotel 203 Yonge Street	Hotel Albert Limited
"	Shamrock Hotel 491 Gerrard Street, East	Best Hotels Limited
"	Sheldon Hotel 81 Victoria Street	Young, H. P.
"	Simcoe Hotel 508 Eastern Avenue	Fox, C. J.
"	Spadina Hotel 460 King Street, West	Spadina Realty Company Limited
"	Stafford Hotel 940 Danforth Avenue	Hotel Stafford (Toronto) Limited
"	Star Hotel 150 Dundas Street, West	Lamb, F. J., and Miss E.
"	Tudor Hotel 559 Sherbourne Street	Rogers, Mrs. H. E.
"	Turf Club Hotel 113 Elm Street	Turf Club Hotel Limited
"	Tusco Hotel 235 Jarvis Street	Tusco Hotel Limited
"	Ulster Arms Hotel 1345 Gerrard Street, East	Corcoran, V. W.
"	Union Hotel 71 Queen Street, West	Union Hotel Limited
"	Victoria Hotel 56 Yonge Street	Victoria Hotel (Toronto) Limited
"	Victory Hotel 418 Bay Street	Assaf, W. E. and Mrs. E.
"	Village Hotel 51 Elm Street	Bay-Elm Plaza Limited
"	Walker House Hotel 121 Front Street, West	Walker House Hotel Company Limited

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
TORONTO	Walsingham Hotel 321 Jarvis Street	Freeman, A. R.
"	Waverley Hotel 482 Spadina Avenue	Waverley Hotel Limited
"	Westminster Hotel 240 Jarvis Street	Westminster Realty Company Limited
"	Westmorland Hotel 254 Jarvis Street	Westmorland Hotel Limited
"	Wheat Sheaf Hotel 667 King Street, West	Hammall, J.
"	Winchester Hotel 537 Parliament Street	Wilson, G. A.
"	Windermere Hotel 232 Jarvis Street	Windermere Hotel (Toronto) Limited
"	Wembley Hotel 2301 Danforth Avenue	Firestone, W. and Abroms, L.
"	Ye Olde Tavern Hotel 358 Bay Street	Ye Olde Tavern Hotel Limited
TOTTENHAM	Maple Leaf Hotel (New)	Roche, C. A. and Hurst, Mrs. M. H.
TRENTON	Gilbert Hotel 50 Dundas Street, West	Kerr, J. A.
"	New St. James Hotel 101 Murray Street	High, A. W.
"	Quinte Hotel 19 Murphy Street	Orrill, J.
"	Royal Hotel 47 Dundas Street, East	Sage Enterprises Limited
TROUT CREEK	Evers Hotel	Evers, H.
TROUT MILLS	White House Lodge	White, Mrs. D. M.
UPSALA	Upsala Inn	Nickelson, J. W.
VAL GAGNE	National Hotel	Sancartier, Mrs. M.
VANKLEEK HILL	Windsor Hotel	St. Denis, P.
VAN WAGNER'S BEACH	Edgewater Hotel R.R. 6, Hamilton	Chelar, M.
VERMILION BAY	Bayview Hotel	Brown, R. D.
VERNER	Commercial Hotel Main Street	Lachapelle, E.
VIENNA	New Vienna Hotel	Shelson, R.
VIRGINIATOWN	McGarry Hotel Webster Street	Hotel McGarry Limited
WABIGOON	King Edward Hotel Main Street	Stanford, C. R.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
WAHNAPITAE	Grand Union Hotel Hill Street	Marotta, F.
WALFORD	Wilson's Resort	Wilson, W. G.
WALKERTON	Central Hotel Durham Street	Gibson, Mrs. S.
"	Hartley House	Schmalz, C. P.
"	Queen's Hotel Jackson & Scott Streets	Wood, H.
WALLACEBURG	Kent Hotel 450 Wallace Street	Van Watteghem, C.
"	Tecumseh House 46 Duncan Street	Estate of A. J. Mahoney
"	Wallaceburg Hotel Wallace Street	Hunter, H. C.
WARDSVILLE	Wardsville Inn Main Street	Muir, T. A.
WARREN	Globe Hotel	Boucher, H. F.
WASAGA BEACH	Allistonia Hotel River Street	Sandy Beach Hotels Limited
" "	Nottawa Inn	Nottawa Inn Limited
WATERDOWN	American Hotel Dundas Street	Condon, F. E. and Stanley, Mrs. R. M.
"	Kirk House Main and Dundas Streets	Kirk, Mrs. A. L., M. A., and J. L.
WATERLOO	City Hotel 76 King Street, South	Henning, O. R.
"	Kent Hotel 59 King Street, North	Snyder, A. C.
"	Waterloo Hotel 4 King Street, North	Chadder, S. J.
WATFORD	Roche House Main Street	Sproule, G. E.
"	Watford Inn	Hobbs, Mrs. S. A.
WAWA	Lakeview Hotel	Lakeview Hotel (Wawa) Limited
WEBBWOOD	Windsor Hotel	Dennie, F. J. Jr.
WELLAND	Colonial Hotel 300 King Street	Estate of Mrs. C. Cutaia
"	Commercial Hotel 62 King Street	Sher, D. and Saltzman, S.
"	Dexter Hotel 69 Main Street, East	Cooper, J. W.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
WELLAND	Niagara Hotel 258 King Street	Morabito, J.
"	Reeta Hotel 90 Main Street, East	Hotel Reeta Limited
"	Welland Hotel 3 Niagara Street	Kunda, J. and Mrs. S.
WELLAND JUNCTION	Dain City Hotel	Bouk, H. E.
WELLESLEY	Queen's Hotel	Logel, J.
"	Royal Hotel Queen and William Sts.	Pirce, L.
WENDOVER	Wendover Hotel (New)	Viau, Joseph
WEST HILL	West Hill Hotel	Machibroda, J.
WESTPORT	Lexena Hotel Bedford Street	Roberts, H. H.
"	Westport Inn	Garrod, F.
WHITBY	Royal Hotel 171 Brock Street, North	Rosseau, Mrs. R. A. and A. L.
"	Spruce Villa Hotel	Purdy, Mrs. M.
"	Whitby Hotel 207 Dundas Street, West	Bandel, Miss M. E. and L. J.
WHITEFISH	Penage Hotel High Street	Falzetta, P.
WHITEFISH FALLS	Whitefish Falls Hotel	White, S. J.
WHITE RIVER	Green Gables Hotel	Bracci, Mrs. L.
WIARTON	Arlington Hotel Berford Street	Taylor, C. L.
"	Pacific Hotel Berford Street	Walker, A. G. and R. A.
WILLIAMSBURG	Locketon Lodge Hotel	Robert, E.
WILNO	Exchange Hotel	Shulist, Mrs. E.
WINDSOR	Ambassador Hotel 93 Sandwich Street, East	McNamara Hotels Limited
"	Arcade Hotel 1353 Wyandotte Street, E.	Kozak, J.
"	Arlington Hotel 891 Erie Street, East	Bilson, J. and Mrs. M.
"	Baby Hotel 1683 College Avenue	Baby, H.
"	Bedell Hotel 1444 Ottawa Street	Kozak, W. J.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
WINDSOR	Bellvue Hotel 1271 Sandwich Street, E.	Bacon, Geo.
"	Blue Water Hotel 128 Windsor Avenue	Labadie, E.
"	Border Hotel 428 Wyandotte Street, E.	Tenenbaum, M.
"	Bridge Avenue Hotel 1886 London Street, West	Vida, M.
"	British American Hotel 6-14 Sandwich Street, E.	Doumani, E. M.
"	Chippawa Hotel 3404 Bloomfield Road	Laforet, E. F.
"	Commodore Hotel 25 Chatham Street, East	Commodore Hotel (Windsor) Limited
"	Coronation Hotel 1521 Sandwich Street, W.	Mandich, M. and Vincetic, A.
"	Detroit Hotel 1211 Drouillard Road	Detroit Hotel Limited
"	Dixie Hotel 1080 Erie Street, East	Schiller, Mrs. E.
"	Dominion Hotel 3140 Sandwich Street, W.	Boyer, W. H.
"	Drake Hotel 193 Glengarry Avenue	Uteson, M.
"	Driving Park Hotel 2105 Ouellette Avenue	Driving Park Hotel Company Limited
"	East Windsor Hotel 1214 Drouillard Road	Poitras, Mrs. B.
"	Erie Hotel 1067 Erie Street, East	Dan, Mrs. A.
"	Essex House 317 Sandwich Street, W.	Kovarbacih, P.
"	Europe Hotel 1638 Drouillard Road	Bulat, P.
"	Grand Central Hotel 241 Sandwich Street, East	Graveline, Mrs. E. M.
"	Grand Hotel 533 Erie Street, East	Grand Hotel (Windsor) Limited
"	Highway Hotel 592 Dougall Avenue	Heffernan, H. A.
"	Hollywood Hotel 900 Howard Avenue	Schulde, J. P.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
WINDSOR	Horseshoe Hotel 542 Cataraqui Street	Irvine, Mrs. M.
"	Howard Hotel 1534 Howard Avenue	Nykilchuk, P.
"	Imperial Hotel 193 Sandwich Street, W.	Estate of K. Lee
"	International Hotel 932 Drouillard Road	Bolohan, G. N. C.
"	Killarney Castle Hotel 592 Victoria Avenue	Draganitz, M.
"	Lido Venice Hotel 3885 Sandwich Street, W.	Trumble, L.
"	Lincoln Hotel 443 Ouellette Avenue	Lincoln Hotel (Windsor) Limited
"	Maple Leaf Hotel 1629 Howard Avenue	Maple Leaf Hotel (Windsor) Limited
"	Marigold Hotel 1011 Drouillard Road	Zimbalatte, Mrs. C.
"	Martin Hotel 1325 Langlois Avenue	Marksity, N., Kralovensky, A. and Yurik, A.
"	Metropole Hotel 917 Walker Road	Metropole Hotel (Windsor) Limited
"	Monarch Hotel 82 Wyandotte Street, W.	May, F. J. and Johnson, M.
"	Munro Hotel 95 Pitt Street, East	Rusnov, L.
"	Norton Palmer Hotel 130 Park Street, West	Norton Palmer Hotel Ltd.
"	Ottawa Hotel 943 Ottawa Street, East	Rossi, J.
"	Palace Hotel 939 Drouillard Road	Moskalyk, S. and Mrs. J.
"	Plaza Arms Hotel 79 Pitt Street, West	Plaza Arms Limited
"	Peros Hotel 1056 Wyandotte Street, E.	Bulat, P.
"	Prince Edward Hotel 380 Ouellette Avenue	Prince Edward Hotel (Windsor) Limited
"	Rex Hotel 1118 Drouillard Road	Lysy, M. and Nikon, N.
"	Ritz Hotel 93 Ouellette Avenue	McNamara Hotels Ltd.

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
WINDSOR	Royale Hotel 4877 Wyandotte Street, E.	Radonich, M. and Tarailo, D.
"	Royal Oak Hotel 3260 Sandwich Street, W.	Demic, S. and Kovarbasic, D.
"	St. Clair Hotel 66 Wyandotte Street, East	Sukunda, E.
"	Shore Acres Hotel 1981 Sandwich Street, W.	Sutton, H. W.
"	Southwood Hotel 1353 Wellington Street	Bielich, M.
"	Star Hotel 792 Gladstone Avenue	Star Hotel Company Ltd.
"	Talbot Hotel 581 Elm Avenue	May, F. J. and Johnson. M.
"	Temple Hotel 2756 Charles Street	Poitras, N.
"	Victoria Hotel 400 Chilver Road	Estate of F. H. Laforet
"	Walker House 317 McDougall Street	Estate of J. A. Smith
"	Wellington Hotel 1159 Elliott Street, West	Pelech, H.
"	West Side Hotel 623 Sandwich Street, W.	Larose, A.
"	Westwood Hotel 4280 Sandwich Street, W.	Reaume, E. E.
"	Windsor Hotel 156 Windsor Avenue	Jean, L.
"	Woodbine Hotel 139 Goyeau Street	Stefuriac, Mrs. E. M.
"	Wyandotte Hotel 892 Wyandotte Street, E.	Yarmoluk, J.
WINONA	Inns of Innsville	Kyriakopulos, G.
WOLFE ISLAND	Island Hotel	Johnson, M. V.
WOODSLEE	Rochester Hotel	Grymonprez, C.
WOODBRIDGE	Elm's Hotel Pine Street	Briggs, W. B. Jr.
WOODSTOCK	New Commercial Hotel 15 Graham Street	New Commercial Hotel Company

MUNICIPALITY	NAME OF HOTEL	NAME OF OWNER
WOODSTOCK	Oxford Hotel 28 Finkle Street	Reid, R. H.
"	Royal Hotel	Royal Hotel of Woodstock Limited
"	Southside Hotel 95 Victoria Street	Southside Hotel Company (Woodstock) Limited
YORK MILLS	New Jolly Miller Hotel 2885 Yonge Street	New Jolly Miller Hotel Limited
YORK TOWNSHIP	Oakwood Hotel 489 Oakwood Avenue	Oakwood Hotel Limited
" "	Queensbury Inn 530 Scarlett Road	Corcoran, J. J. and Webster, H.
YOUNG'S POINT	South Beach Hotel	Lawlor, T. J. and L. K.

CLUBS (SOCIAL)

MUNICIPALITY	NAME OF CLUB	ADDRESS
AMHERSTBURG	Deer Head Club	201 Dalhousie Street
BARTONVILLE	Glendale Golf & Country Club Limited	R.R. 1
BELLEVILLE	Belleville Club Limited	210 Pinnacle Street
"	Belleville Shrine Club Limited (New)	51 Highland Ave.
BILLINGS BRIDGE	Ottawa Hunt & Golf Club Limited	R.R. 2
BRANTFORD	Brantford Club	98 George Street
"	Polish Mutual Benefit & Friendly Society	154 Pearl Street
"	Polish Alliance Friendly Society, Branch No. 10	126 Albion Street
"	Shriners' Club of Brantford Limited	144 Dalhousie Street
BRIDGEPORT	Grand River Golf & Country Club	
BROCKVILLE	Brockville Club	22 Court House Avenue
CHATHAM	Chatham Golf & Country Club	Queen Street
"	Kent Club Corporation	155 King Street, West
COBOURG	Cobourg Golf Club Limited	919 Division Street
DUNNVILLE	Dunnville Golf & Country Club Limited (New)	R.R. 5
ETOBICOKE	Pine Point Golf Club	200 Dee Avenue (Mailing Address, P.O. Box 131, Weston)
"	St. George's Golf & Country Club	Royal York Road (Mailing Address, 35 Old Mill Road, Toronto 9)
"	Summerlea Golf & Country Club	R.R. 3, Weston
FORT ERIE	Niagara Racing Association of Ontario	
FORT ERIE NORTH	Erie Downs Golf & Country Club Limited	
FORT WILLIAM	Benevolent & Protective Order Elks Ft. William Lodge No. 82	201 North Syndicate Avenue

MUNICIPALITY	NAME OF CLUB	ADDRESS
FORT WILLIAM	Fort William Club	116 McVicar Street
“ “	Fort William Country Club Limited	
“ “	Italian Club, Principe di Piemonte Society	600 McLaughlin Street
GERALDTON	Kenogamisis Golf Club	
GUELPH	Guelph Country Club Limited	Wellington Place
“	Guelph Golf & Recreation Club Limited	College Avenue
HAMILTON	Chedoke Golf Club	Aberdeen Avenue
“	Commercial Club Limited	4 Vine Street
“	Hamilton Club	6 Main Street, East
“	Hamilton Thistle Club Ltd.	81 Robinson Street
“	Hamilton Victoria Club Ltd.	568 King Street, East
“	Leander Boat Club	Foot of John Street
“	Royal Hamilton Yacht Club	McNab Street, North
HANOVER POST OFFICE	Saugeen Golf Club	Brant Township
HUMBER BAY	Humber Valley Golf & Tennis Club	29 Dilon Avenue
ISLINGTON	Islington Golf Club Limited	
KENORA	Kenora Golf & Country Club Limited	(Mailing Address 319 Second Street, South Kenora)
KINGSTON	Kingston & Frontenac County Conservative Club	15 Montreal Street
“	Kingston Curling Club	75 Clergy Street, West
KIRKLAND LAKE	National Polish Society of Kirkland Lake	8 Wood Street
“	Kirkland Lake Golf Club Limited	(Mailing Address Box 61 Swastika)
KITCHENER	Granite Club	69 Agnes Street
“	Rockway Golf & Bowling Club	Rockway Drive
“	Westmount Golf & Country Club Limited	
LAMBTON MILLS	Lambton Golf & Country Club Limited	Scarlett Road
LEASIDE	Thorncliffe Park Racing & Breeding Association Ltd.	(Woodbine Park)

MUNICIPALITY	NAME OF CLUB	ADDRESS
LONDON	Hermitage Club	368 Richmond Street
"	London Club Limited	177 Queen's Avenue
"	Marconi Club	74 Carling Street
"	Mocha Mosque	471 Waterloo Street
"	Polish National Association Limited	554 Hill Street
NIAGARA FALLS	Niagara Falls Badminton & Tennis Club	1300 Wilmott Street
NIAGARA-ON-THE-LAKE	Niagara-on-the-Lake Golf Club	Front Street
NORTH BAY	Bay Club Limited	99 Main Street, West
" "	North Bay Golf & Country Club Limited	
OAKVILLE	Oakville Club Limited	Water Street
OSHAWA	Oshawa Golf Club Limited	Alexandra Street
OTTAWA	Association Athletique Montagnard	693½ Somerset Street, West
"	Bridge Club of Ottawa Ltd.	184 Sparks Street
"	Laurentian Club Incorporated	233 Metcalfe Street
"	L'Institut Canadien Francais d'Ottawa	
"	Rideau Club	84 Wellington Street
OVERBROOK	Rideau Lawn Tennis Club Limited	
PAQUETTE STATION	Dominion Golf & Country Club	
PEMBROKE	Pembroke Golf Club Limited	
PETERBOROUGH	Peterborough Club	126 Simcoe Street
"	Peterborough Golf & Country Club Limited (New)	Douro Township (Mailing Address 391 Water Street, Peterborough)
POINT EDWARD	Sarnia Golf Club Limited (New)	(Mailing Address 149 Durand Street Sarnia)
PORT ARTHUR	Italian Mutual Benefit Society	130-2 South Algoma St.
" "	Port Arthur Curling Club	214 Egan Street
" "	Shuniah Club	8th Floor, Public Utilities Building
" "	Port Arthur Golf & Country Club Limited	Eleventh Avenue

MUNICIPALITY	NAME OF CLUB	ADDRESS
RENFREW	Renfrew Golf Club Limited	R. R. 3
RIDGEWAY	Buffalo Canoe Club	Erie Road
"	Cherry Hill Club Limited	Cherry Hill and Garrison Road
RIVERSIDE	Riverside Yacht Club Limited	5228 Riverside Drive
"	Windsor Yacht Club	4400 Riverside Drive
ST. CATHARINES	St. Catharines Golf Club Limited	34 Westchester Avenue
" "	St. Catharines Club	77 Ontario Street
ST. CLAIR BEACH	Beach Grove Golf Club	R.R. 1, Tecumseh
" " "	Lakewood Golf Club Limited	R.R. 1, Tecumseh
ST. THOMAS	Hi-Ro Shriners' Club of Elgin	472 Talbot Street
SANDWICH EAST	Little River Golf & Country Club	Lauzon Road, R.R. 2 Tecumseh
SANDWICH WEST	Essex County Golf & Country Club Limited	
SAULT STE. MARIE	Algo Men's Club	639 Bay Street
"	Marconi Social Club	450 Albert Street, West
"	Sault Ste. Marie Golf Club	Queen Street, East
"	Sons of Italy Grand Lodge of Ontario	Cathcart and Hudson Streets
SCARBORO	Cedar Brae Golf & Country Club	Markham Road
"	Scarboro Golf & Country Club Limited	
"	Toronto Hunt Club	1355 Kingston Road
SCARBORO BLUFFS	Cliffside Golf Club	(Mailing Address Birchcliff P.O.)
SIMCOE	Norfolk Golf & Country Club Limited	Peel Street
"	Phoenix Club of Simcoe (New)	51 Argyle Street
SOUTH WINDSOR	Roseland Golf & Country Club	Dougall Avenue
STRATFORD	Stratford Country Club Ltd.	Romeo Street
SUDBURY	Idylwylde Golf & Country Club Limited	Box 5
"	Serbian Club of Sudbury Limited (New)	231 Bloor Street

MUNICIPALITY	NAME OF CLUB	ADDRESS
SUDBURY	Sudbury Golf Club Limited	Lot 5, Concession 5, McKim Township
"	Sudbury Riding Club	703 Old Garson Road McKim Township
TECUMSEH	Shawnee Gun & Country Club	Shawnee Road
TORONTO	Acadian Recreation Club Limited	1797 Danforth Avenue
"	Albany Club of Toronto Ltd.	91 King Street, East
"	Arlington Athletic Club	767 Dovercourt Road
"	Arts & Letters Club	14 Elm Street
"	Badminton & Racquet Club of Toronto	25 St. Clair Avenue, W.
"	Boulevard Club Limited	175 Lakeshore Blvd.
"	Canadian Officer's Club & Institute	426 University Avenue
"	Carlton Club of Toronto Ltd.	94 Hayden Street
"	Elm Grove Recreation & Athletic Club	1249 Queen Street, W.
"	Engineers' Club of Toronto	350 Bay Street
"	Granite Club Limited	63 St. Clair Avenue, W.
"	Law Society of Upper Canada	Osgoode Hall, 120 Queen Street, West
"	National Club	303 Bay Street
"	Ontario Club	16 Wellington St., W.
"	Primrose Club Limited	41 Willcocks Street
"	Royal Canadian Yacht Club	Centre Island
"	St. Andrew's Bridge & Social Club	300½ College Street
"	Standard Athletic & Social Club (New)	667 College Street
"	Toronto Club	107 Wellington St., W.
"	Toronto Ladies' Club	2 Bloor Street, West
"	Toronto Lawn Tennis Club	40 Rowanwood Avenue
"	Toronto Men's Press Club Incorporated	143 Yonge Street
"	Toronto Skating Club	568 Dupont Street
"	University Club of Toronto	380 University Avenue

MUNICIPALITY	NAME OF CLUB	ADDRESS
TORONTO	Victoria Skating & Curling Association of Toronto Limited	277 Huron Street
"	York Club	135 St. George Street
WALKERTON	Walkerton Golf & Country Club Limited	
WATERLOO	Waterloo Club Limited	34 Erb Street, East
WELLAND	Temple Club	268 Main Street, East
"	Welland Club Limited	King Street
WESTON	Elm's Golf & Country Club	Woodbridge Road
"	Weston Golf & Country Club Limited	
WINDSOR	Border Cities Italian Club	966 Wyandotte St., E.
"	Border Cities Polish Canadian Club	1530 Langlois Avenue
"	Chrymoto Men's Club	2330 McDougall Street
"	French Canadian Club of Windsor	1253 Wyandotte St., E.
"	Frontier Badminton Club (Inc.)	4037 Riverside Drive
"	Frontier Social Club	454 McDougall Avenue
"	Othmar Grotto Club	1730 Wyandotte St., E.
"	Polish People's Home Association	1275 Langlois Avenue
"	Windsor & District Hungarian Society	812 Ottawa Street
YORK EAST	Woodbine Golf & Country Club	O'Connor Drive and Woodbine Avenue
YORK MILLS	St. Andrew's Estates & Golf Club Limited	R.R. 1
" "	York Downs Golf & Country Club Limited	R.R. 1
YORK NORTH	Oakdale Golf & Country Club Limited	
" "	Rosedale Golf Club	1901 Mount Pleasant Road
" "	Toronto Cricket Club	Wilson Avenue, Armour Heights

CLUBS (VETERAN AND LABOUR)

MUNICIPALITY	NAME OF CLUB	ADDRESS
AMHERSTBURG	Canadian Legion B.E.S.L. Branch No. 157 (New)	
ATIKOKAN	Canadian Legion B.E.S.L. Branch No. 145	
AYLMER	Canadian Legion B.E.S.L. Branch No. 81	John Street, North
BELLEVILLE	Army & Navy Veterans in Canada, Unit No. 201	187 Front Street
BRANTFORD	Brantford Ex-Imperial Veterans' Social Club	117 Market Street
"	Canadian Legion B.E.S.L. Branch No. 90	20 Colborne Street
CALEDONIA	Canadian Legion B.E.S.L. Branch No. 154	Caithness Street
CHATHAM	Canadian Legion B.E.S.L. Branch No. 28	29 Victoria Avenue
COBOURG	Canadian Legion B.E.S.L. Branch No. 133 (New)	144 King Street, West
CORNWALL	Canadian Legion B.E.S.L. Branch No. 297 (New)	
DUNNVILLE	Canadian Legion B.E.S.L. Branch No. 142	305 Queen Street, East
ELORA	Canadian Legion B.E.S.L. Branch No. 229	Metcalfe Street
ESSEX	Canadian Legion B.E.S.L. Branch No. 201	Talbot Street
FAIRBANK	Canadian Legion B.E.S.L. Branch No. 75	31 Shortt Street
"	His Majesty's Imperial Army and Navy Veterans' Association	
FORT ERIE	Canadian Legion B.E.S.L. Branch No. 71	31 Bertie Street
FORT FRANCES	Canadian Legion B.E.S.L. Branch No. 29	259 Scott Street
FORT WILLIAM	Army & Navy Veterans in Canada, Unit No. 257	141 Simpson Street
" "	Canadian Legion B.E.S.L. Slovak Branch No. 129	800 McIntosh Street
" "	Canadian Legion B.E.S.L. Italian Branch No. 113	534 McLaughlin Street

MUNICIPALITY	NAME OF CLUB	ADDRESS
FORT WILLIAM	Canadian Legion B.E.S.L. Fort William Branch	226 South May Street
GALT	Canadian Legion B.E.S.L. Branch No. 121	15 Walnut Street
GEORGETOWN	Canadian Legion B.E.S.L Branch No. 120	Mill Street
GERALDTON	Canadian Legion B.E.S.L. Branch No. 133 (New)	
GRAVENHURST	Canadian Legion B.E.S.L. Branch No. 302	Bay Street
GUELPH	Canadian Legion B.E.S.L. Branch No. 234	Priory Square
"	Red Chevron Club (Branch No. 4 Originals' Club)	116 Quebec Street, East
HAMILTON	Army & Navy Veterans in Canada, Unit No. 153	128 King Street, West
"	British Imperial Club	80½ James Street, N.
"	Canadian Corps Association F.S.W.W.V. (New)	469 Bay Street, North
"	Canadian Legion B.E.S.L. Branch No. 7	36 Charles Street
"	Canadian Legion B.E.S.L. Branch No. 58	Barton and Agnes Sts.
"	Canadian Pensioners' Association of the Great War (Hamilton Branch)	199 King William St.
"	Canadian Legion B.E.S.L. Branch No. 315, (Polish Veterans)	644 Barton Street, East
"	Dominion Foundries & Steel Overseas Veterans' Association	1052 Barton Street, E.
"	Firestone War Veterans' Association	1211 Cannon Street, E.
"	Fourth Canadian Infantry Battalion Veterans' Association (Hamilton Branch)	12½ King Street, West
"	His Majesty's Army & Navy Veterans' Society	96 McNab Street, North
"	National Steel Car War Veterans' Association (New)	549 Kenilworth Avenue, North

MUNICIPALITY	NAME OF CLUB	ADDRESS
HAMILTON	Old Contemptibles' Association & Social Club of Hamilton	1002 Barton Street, E.
"	Veterans of First Canadian Contingent Social Club of Hamilton	235½ King Street, East
"	Veterans' Service League	1473 Main Street, East
"	War Amputations of Canada Hamilton Branch	456 Mountain Park Drive
HESPELER	Canadian Legion B.E.S.L. Branch No. 272	Queen Street, West
ISLINGTON	Canadian Legion B.E.S.L. Branch No. 210	Bloor Street, West
KENORA	Canadian Legion B.E.S.L. Branch No. 12	334 Second Street, S.
KINGSTON	Canadian Corps Association Branch No. 120	164 Wellington Street
"	Canadian Legion B.E.S.L. Branch No. 9	67 Princess Street
KINGSVILLE	Canadian Legion B.E.S.L. Branch No. 188	Main Street, West
KIRKLAND LAKE	Canadian Legion B.E.S.L. Branch No. 87	79 Government Rd., W.
KITCHENER	Army & Navy Veterans in Canada, Unit No. 247	33 King Street, East
"	Canadian Legion B.E.S.L. Branch No. 50	48 Ontario Street, N
LEAMINGTON	Canadian Legion B.E.S.L. Branch No. 84	Memorial Park
LINDSAY	Canadian Legion B.E.S.L. Branch No. 67	12 York Street
LONDON	Air Force Association (London District (New)	330B Dundas Street
"	Army & Navy Veterans in Canada, Imperial Unit No. 229	340 York Street
"	Canadian Legion B.E.S.L. Branch No. 2	125½ King Street
"	Canadian Legion B.E.S.L. Branch No. 263	70 Dundas Street
"	Canadian Legion B.E.S.L. Branch No. 279	566 Dundas Street

MUNICIPALITY	NAME OF CLUB	ADDRESS
LONDON	Canadian Legion B.E.S.L. Roosevelt Branch No. 306	119½ Dundas Street
"	Originals' Club, Inc. of Ontario, Branch No. 2	104 Dundas Street
"	Canadian Legion B.E.S.L. Branch No. 317 (New)	812 Dundas Street
MARMORA	Canadian Legion B.E.S.L. Branch No. 237	
MERRITTON	Canadian Legion B.E.S.L. Branch No. 138	Chestnut & Thomas Streets
MIMICO	Canadian Legion B.E.S.L. Branch 217	14 Drummond Avenue
MOUNT DENNIS	Canadian Legion B.E.S.L. Branch No. 31	1006 Weston Road
NEWTONBROOK	North York Veterans' Social Club Incorporated	Yonge Street and Abitibi Avenue
NEW TORONTO	Canadian Legion B.E.S.L. Branch No. 3	263 Seventh Street
NIAGARA FALLS	Canadian Corps Association, Unit No. 104	1657 Victoria Avenue
" "	Canadian Legion B.E.S.L. Branch No. 51	1347 Victoria Avenue
NIAGARA-ON-THE-LAKE	Canadian Legion B.E.S.L. Branch No. 124	King Street
OAKVILLE	Canadian Legion B.E.S.L. Branch No. 114	Church and Navy Sts
OSHAWA	Canadian Legion B.E.S.L. Branch No. 43	90 Centre Street
OTTAWA	Canadian Legion B.E.S.L. Branch No. 351 (New)	188 Queen Street
PARIS	Canadian Legion B.E.S.L. Branch No. 29	70 William Street
PARRY SOUND	Canadian Legion B.E.S.L. Branch No. 117	James Street
PENETANGUISHENE	Canadian Legion B.E.S.L. Branch No. 68	
PETERBOROUGH	Canadian Legion B.E.S.L. Branch No. 52	217 Murray Street
POINT EDWARD	Point Edward Ex-Service Men's Club	417 Michigan Avenue
PORT ARTHUR	Canadian Legion B.E.S.L. Port Arthur Branch No. 5	244 Cooke Street

MUNICIPALITY	NAME OF CLUB	ADDRESS
PORT COLBORNE	Canadian Corps Association Unit No. 43	49 Kent Street
PRESTON	Canadian Legion B.E.S.L. Branch No. 126	506 King Street
RAINY RIVER	Canadian Legion B.E.S.L. Branch No. 54	Third Street
RED LAKE	Canadian Legion B.E.S.L. Branch No. 102 (New)	
REDDITT	Canadian Legion B.E.S.L. Branch No. 82	
RIVERSIDE	Canadian Legion B.E.S.L. Branch No. 255	1111 Wyandotte Street
ST. CATHARINES	Canadian Legion B.E.S.L. Branch No. 24	111 Church Street
" "	Earl French Social Club (Imperial Veterans' Corps)	15 George Street
ST. THOMAS	Canadian Legion B.E.S.L. Branch No. 41	24 John Street
SARNIA	Sarnia Service Club Incorporated	286 Front Street, North
SAULT STE. MARIE	Algoma Steel Workers' Club	126 Thompson Street
"	Canadian Legion B.E.S.L. Branch No. 25	343 Queen Street, East
SCARBORO	Canadian Legion B.E.S.L. Branch No. 13	1577 Kingston Road
"	Canadian Legion B.E.S.L. Branch No. 73	2 Robinson Avenue
SIMCOE	Army & Navy Veterans in Canada, Unit No. 255	82 Culver Street
"	Canadian Legion B.E.S.L. Branch No. 79 (New)	54 Metcalfe Street
SIOUX LOOKOUT	Canadian Legion B.E.S.L. Branch No. 78	86 Front Street
STRATFORD	Canadian Legion B.E.S.L. Branch No. 8	207 St. Patrick Street
SUDBURY	Canadian Legion B.E.S.L. Branch No. 76	49 Elm Street, East
TECUMSEH	Canadian Legion B.E.S.L. Branch No. 261	213 Lesperance Rd., S.
THOROLD	Canadian Legion B.E.S.L. Branch No. 17	3 Ormond Street, South

MUNICIPALITY	NAME OF CLUB	ADDRESS
TILBURY	Canadian Legion B.E.S.L. Branch No. 206	Queen Street
TIMMINS	Canadian Legion B.E.S.L. Branch No. 88	17 Cedar Street, South
TODMORDEN	Canadian Legion B.E.S.L. Branch No. 10	1083 Pape Avenue (M.A. Toronto 6)
TORONTO	Canadian Corps of Commissionaires	78 Church Street
"	Canadian Legion B.E.S.L. Branch No. 1	1403 Gerrard Street, E.
"	Canadian Legion B.E.S.L. Branch No. 11	103 Coleman Avenue
"	Canadian Legion B.E.S.L. Branch No. 42	303 Kingston Road
"	Canadian Legion B.E.S.L. Branch No. 65	6-A Greenlaw Avenue
"	Earl French Memorial Club (Operated by the Citizens' Repatriation League, Inc.)	453 Broadview Avenue
TORONTO	Fifteenth Battalion Old Comrades' Social Club	519 Church Street
"	International Geneva Association	90 Wellington Street, West
"	Originals' Club Incorporated (Overseas 1914)	Room "F", Yonge Street Arcade
"	Royal Naval (Association) Club	290½ Yonge Street
"	Sappers' Club of Toronto	40 Murray Street
"	Scottish Club	46 King Street, East
"	Sir Arthur Currie Memorial Club (Operated by Citizens' Repatriation League Inc.)	41 Isabella Street
"	Third Battalion Toronto Regiment Club	285 Bloor Street, East
"	Toronto Black Watch Incorporated	56 Wellington Street, East
"	Toronto Disabled War Veterans' Social Club	265 Gerrard Street, E.

MUNICIPALITY	NAME OF CLUB	ADDRESS
TORONTO	Toronto Labour Lyceum Association, Limited	346 Spadina Avenue
“	Twentieth Battalion Club	256 Huron Street
“	War Amputations of Canada (Toronto Branch)	62 St. Alban's Street
“	West End Veterans' Club (Operated by the Citizens' Repatriation League Inc.)	722 College Street
WALLACEBURG	Canadian Legion B.E.S.L. Branch No. 18	Margaret Avenue
WELLAND	Canadian Legion B.E.S.L. Branch No. 4	275 Main Street, East
WESTMOUNT	Westmount Army & Navy Club	Kingdon Street
WHITBY	Canadian Legion B.E.S.L. Branch No. 112	Byron Street, South
WINDSOR	Army & Navy Veterans in Canada, Unit No. 30	1014 Tecumseh Road, East
	Canadian Legion B.E.S.L. Branch No. 94	36 Chatham Street, E.
“	Canadian Legion B.E.S.L. Branch No. 143	1880 Wyandotte Street, West
“	Canadian Legion B.E.S.L. Branch No. 12	2090 Brant Street
“	Canadian Legion B.E.S.L. Branch No. 222	83 Sandwich Street, W.
“	Canadian Pensioners' Association (Windsor Branch)	493 London Street, W.
“	Polish Army Veterans' Association, Post No. 126	1052 Langlois Avenue
“	Originals' Club Incorporated Branch No. 3 (New)	71 Sandwich Street, East
WOODSTOCK	Canadian Legion B.E.S.L. Branch No. 55	Victoria & Grant Streets
YORK EAST	Canadian Legion B.E.S.L. Branch No. 22	63 Barker Avenue
“	Canadian Legion B.E.S.L. Branch No. 345 (New)	9 Peard Road
YORK TOWNSHIP	Canadian Legion B.E.S.L. Branch No. 57	351 Silverthorne Ave.
“ “	Canadian Legion B.E.S.L. Branch No. 266	3593 Dundas Street, W. (M.A. Toronto 9)

MILITARY MESSES

MUNICIPALITY	NAME OF UNIT
ANGLER	Internment Camp No. 101
ANGUS	Royal Canadian Air Force, No. 13 "X" Depot
AYLMER	Royal Canadian Air Force, No. 1 Technical Training School
BARRIE	Grey & Simcoe Foresters (R) Armoury
BARRIEFIELD	A-21 C.O. & E.M.E. Training Centre
“	A-36 Canadian Radar Training Centre
“	No. 103 Depot, C.W.A.C.
BELLEVILLE	Argyll Light Infantry First (R) Battalion Bridge Street East
BRANTFORD	Dufferin & Haldimand Rifles of Canada Brant Avenue
“	R.C.A.F., No. 4 Reserve Equipment Maintenance Unit
“	Second-Tenth (R) Dragoons, C.A. & Fifty-fourth (R) Field Battery, Royal Canadian Artillery 37 Dalhousie Street
BROCKVILLE	60th L.A.A. Regiment (Brockville Rifles) Royal Canadian Artillery East Avenue
“	Royal Canadian Regiment, 2nd Battalion
CAMP BORDEN	A-19 Canadian Army Service Corps Training Centre
“ “	A-33 Canadian Armoured Corps Training Establishment
“ “	Camp Borden Military Hospital
“ “	Camp Headquarters
“ “	Canadian School of Infantry
“ “	Lord Strathcona's Horse (Royal Canadians)
“ “	No. 15 Company, R.C.E.M.E. 15 Ordnance Depot R.C.O.C.
“ “	No. 15 Engineer Services & Works Company, Royal Canadian Engineers
“ “	No. 86 Military Detention Barracks
“ “	Royal Canadian Air Force, No. 2 Technical Training School
“ “	Royal Canadian Army Medical Corps School
“ “	Royal Canadian Army Service Corps, No. 15 District Company
“ “	Second/First Armoured Regiment, Royal Canadian Dragoons
“ “	Canadian Provost Corps Training Centre, A-32

MUNICIPALITY	NAME OF UNIT
CHATHAM	Kent Regiment, Second (R) Battalion 28 William Street North
"	No. 7 Active Company V.G.C.
COBOURG	Thirty-third Medium Regiment (R) Royal Canadian Artillery King Street West
CORNWALL	Stormont, Dundas & Glengarry Highlanders, Second (R) Battalion Fourth Street East
CRUMLIN	London Military Hospital
DUNDAS	102nd (R) Wentworth Field Battery, Royal Canadian Artillery King Street
ELORA	Royal Canadian Army Medical Corps, 11th Field Ambulance (R) The Armoury
FINGAL	Internment Camp No. 10
FORT ERIE	Lincoln & Welland Regiment, "C" Company Main Street
FORT WILLIAM	Fort William Armouries' Men's Canteen (R) 223 North Archibald Street
GALT	Highland Light Infantry of Canada, Second (R) Battalion Mill Street
GEORGETOWN	Second (R) Battalion, The Lorne Scots (P. D. & H. Regiment) Charles Street (Agricultural Park)
GRAVENHURST	Internment Camp No. 20, Veterans' Guard of Canada
GUELPH	Guelph Garrison Messes Huskisson Street
HAGERSVILLE	Central Mechanization Depot, R.C.O.C.
HAMILTON	Argyll & Sutherland Highlanders of Canada (Princess Louise's) Second Battalion (R) 200 James Street North
"	Eighth (R) Field Regiment, Royal Canadian Artillery, & 11th (R) Field Battery, Royal Canadian Artillery 200 James Street North
"	H.M.C.S. "Star" Catherine Street North
"	Royal Canadian Army Medical Corps, C.A., No. 5 (R) Field Ambulance 200 James Street North

MUNICIPALITY	NAME OF UNIT
HAMILTON	Royal Canadian Corps Signals, No. 3 Company (A) (R) Corps 200 James Street North
"	Royal Canadian Engineers, First (R) Field Squadron —18th Field Squadron James Street North
"	Royal Hamilton Light Infantry (W.R.), C.A., Second (R) Battalion 200 James Street North
"	Canadian Army Trades School S-8 Kenilworth Avenue North
IPPERWASH	Camp Ipperwash Detachment, No. 1 District Depot
KAPUSKASING	124th Ferry Squadron Detachment Kapuskasing Airport
KENORA	Royal Canadian Artillery, 16/17 (R) Medium Battery, R.C.A. & H.Q. 7th Medium Regiment, Royal Canadian Artillery 316 First Street North
KINGSTON	Canadian Women's Army Corps, No.' 103 Depot Company Alwington Barracks, 8 King Street West
"	Canadian Signal Training Centre Vimy Barracks—Barriefield
"	Combined Messes The Armouries, Montreal Street
"	District Depot No. 3 Fort Frontenac
"	Headquarters Officers' Mess, M.D. No. 3 440 King Street West
"	H.M.C.S. "Cataraqui" 47 Wellington Street
"	No. 89 Military Detention Barracks Fort Henry
"	Princess of Wales Own Regiment (M.G.), (R) Montreal Street
"	Royal Canadian Army Service Corps, No. 3 District Depot Artillery Park
"	Royal Canadian Ordnance Corps, No. 3 Ordnance Depot 440 King Street, West
"	Royal Military College of Canada

MUNICIPALITY	NAME OF UNIT
KITCHENER	Royal Canadian Army Medical Corps, 24th Reserve Field Ambulance 87 King Street, East
"	Scots Fusiliers of Canada (R) 251 King Street, West
LINDSAY	45th/56th (R) Field Batteries, Royal Canadian Artillery 160 Kent Street West
LONDON	Canadian Provost Corps, C.A., No. 30 Provost Coy. Carling Heights
"	Headquarters, M.D. No. 1 Meredith Barracks, 565 Talbot Street
"	H.M.C.S. "Prevost" 433 Richmond Street
"	London Garrison Dundas Street Armouries
"	Middlesex & Huron Regiment, First (R) Battalion 347 Oxford Street
"	No. 1 District Depot, (C.A.) Wolseley Barracks
"	2nd Squadron, 1st Canadian Infantry Division Signals Erie Building, Carling Heights
"	Queen's Park Barracks Queen's Park (Fair Grounds)
"	1st (R) District Signals and 1st (R) Infantry Division Ordnance, Fd. Pk. R.C.O.C. 701 Talbot Street
MADOC	Hastings and Prince Edward Regiment Second (R) Battalion "B" Company
MONTEITH	Internment Camp No. 23
MOUNTAIN VIEW	Royal Canadian Air Force Air Armament School
NAPANEE	Royal Canadian Artillery, 47th (R) Field Battery Centre Street
NEW SARUM	Central Mechanization Depot, Sub-depot R.C.O.C., (C.A.)
NIAGARA-ON-THE LAKE	Niagara Military Camp Headquarters
" " "	Cadet Instructors Summer Camp
NIAGARA FALLS	Lincoln & Welland Regiment, Second (R) Battalion, "D" Company 1049 Victoria Avenue
NORTH BAY	No. 32 Company, Canadian Provost Corps 108 First Avenue West

MUNICIPALITY	NAME OF UNIT
NORTH BAY	Algonquin Regiment Chippewa Barracks
“ “	A-38 Prisoner of War Guard Training Centre Chippewa Barracks
OAKVILLE	C.W.A.C. #102 Depot Company
OSHAWA	Eleventh (R) Army Tank Regiment 53 Simcoe Street North
OTTAWA	Air Force Headquarters, Officers' Mess 158 Gloucester Street
“	Cameron Highlanders of Ottawa, Second (R) Battalion Drill Hall, Cartier Square
“	Canadian Officers' Training Corps, University of Ottawa Contingent 173 Waller Street
“	Chemical Warfare Laboratories Sussex and John Streets
“	No. 5 Infantry Division Ordnance Fd. Pk. 60 Queen Street
“	Fourth (R) Reconnaisance Regiment (4 P.L.D.G.) 60 Queen Street
“	Governor General's Foot Guards, Second (R) Bn. Drill Hall, Cartier Square
“	H.M.C.S. “Bytown”, Naval Service Headquarters 78 Lisgar Street
“	H.M.C.S. “Carleton” Dow's Lake
“	No. 7 (R) Infantry Brigade Workshop, R.C.E.M.E. 63 Sussex Street
“	No. 12 Administrative Unit, C.W.A.C. 312 Laurier Avenue, East
“	No. 38 Administrative Unit, C.W.A.C. Argyle Barracks
“	No. 40 Administrative Unit C.W.A.C. Glebe Barracks, 268 First Avenue
“	Royal Canadian Air Force, Headquarters Victoria Island
“	Royal Canadian Air Force, Maintenance Command Headquarters Uplands
“	Royal Canadian Air Force (W.D.) Princess Alice Barracks, 152 Argyle Street

MUNICIPALITY	NAME OF UNIT
OTTAWA	Royal Canadian Army Medical Corps, N.D.H.Q. Coy. 180 Elgin Street
"	No. 9 District Depot C.A. Lansdowne Park Military Camp
"	Department of National Defence (Air)
"	Royal Canadian Army Medical Corps, No. 23 (R) Field Ambulance 60 Queen Street
"	Royal Canadan Army Service Corps, First (R) Corps Troops 278 Sparks Street
"	Royal Canadian Army Service Corps, N.D.H.Q. Transport Company Lansdowne Park
"	Royal Canadian Artillery, 33rd (R) Field Regiment 526 St. Patrick Street
"	Royal Canadian Artillery, 51st (R) L.A.A. Battery Drill Hall, Cartier Square
"	Royal Canadian Signals, Third (R) Canadian Divisional Signals Cartier Street School Building, Cartier & McLeod Sts.
"	Royal Canadian Engineers, Third (R) Field Company 59 Albert Street
"	Royal Canadian Ordnance Corps, Central Ordnance Depot, C.A. Plouffe Park
PEMBROKE	Lanark & Renfrew Scottish Regiment, (R) 177 Victoria Street
PENETANGUISHENE	Grey & Simcoe Foresters, "D" Company, (Reserve) Main Street
PETAWAWA	Camp Headquarters
"	Second/First Field Regiment, Royal Canadian Horse Artillery
PETERBOROUGH	50th H.A.A. Regiment, Prince of Wales Rangers (Peterborough Regiment) 220 Murray Street
PICTON	Hastings & Prince Edward Regiment, "C" Company Second (R) Battalion Main Street

MUNICIPALITY	NAME OF UNIT
PORT ARTHUR	H.M.C.S. "Griffon" 125 North Algoma Street
" "	Lake Superior Regiment, C.A., Second (R) Battalion 317 Park Street
" "	No. 1 Administrative Unit, Veterans' Guard of Canada Current River Barracks, Cumberland Street North
PORT COLBORNE	Lincoln & Welland Regiment, "B" Company Second (R) Battalion Clarence Street
PORT HOPE	Midland Regiment, Second (R) Battalion Mill Street
PRESCOTT	Brockville Rifles, Second (R) Battalion "C" Company George Street
ROCKCLIFFE	Royal Canadian Air Force Station
ST. CATHARINES	"A" Squadron, 2/10 (Reserve) Dragoons Lake Street
" "	Lincoln & Welland Regiment, C.A., Second (R) Battalion Lake Street
" "	Tenth (R) Field Battery, Royal Canadian Artillery 75 Lake Street
ST. THOMAS	Elgin Regiment, Second (R) Battalion Wilson Avenue
SARNIA	Lambton Garrison 241 Christina Street North
SAULT STE. MARIE	Sault Ste. Marie & Sudbury Regiment C.A., Second (R) Battalion 118 Brock Street
SIMCOE	Royal Canadian Artillery, 45th (R) Norfolk Field Regiment Robinson Street
STRATFORD	Perth Regiment, Second (Reserve) Battalion (Motor) 80 Waterloo Street South
SUDBURY	Sault Ste. Marie & Sudbury Regiment, Second (R) Battalion, Sudbury Detachment 19 Grey Street
TILLSONBURG	Oxford Rifles (R), "C" Company Armouries
TORONTO	Canadian Provost Corps, C.A., No. 31 Company 339 George Street
"	Toronto Military Hospital
"	Fort York Armoury, Combined Units (Reserve) Fleet Street

MUNICIPALITY	NAME OF UNIT
TORONTO	Headquarters, Officers' Mess, Military District No. 2 Chorley Park, Rosedale
"	H.M.C.S. "York" Automotive Building, Exhibition Park
"	No. 2 District Depot C.A. (A) Exhibition Barracks, Exhibition Grounds
"	No. 2 (R) Armoured Bde. Workshop, R.C.E.M.E., C.A. 61 Albert Street
"	Royal Canadian Air Force, No. 1 Composite Training School 1107 Avenue Road
"	Royal Canadian Air Force, No. 4 Release Centre Coliseum Building, Exhibition Grounds
"	Royal Canadian Air Force, No. 12 Aeronautical Inspection District 2 Cawthra Square
"	Royal Canadian Corps of Signals, C.A. (Reserve) 185 Spadina Avenue
"	University Avenue Armouries, Men's Canteen (R) University Avenue Armouries
"	R.C.A.M.C. Toronto Garrison 204 St. George Street
TRENTON	Hastings & Prince Edward Regiment, Second (R) Battalion Support Company Quinte Street
"	Royal Canadian Air Force, No. 6 Repair Depot
"	Royal Canadian Air Force Station
WALKERTON	97th (R) Field Battery & 31st (R) Field Regiment, Royal Canadian Artillery Jane Street
WELLAND	Lincoln & Welland Regiment, "A" Company Second (R) Battalion Aqueduct Street
WINDSOR	Essex Scottish Regiment, Second (R) Battalion 353 Cartier Place
"	H.M.C.S. "Hunter" 960 Ouellette Avenue
"	No. 1 (R) Infantry Bde. Workshop, R.C.E.M.E. St. Luke's Road Barracks
"	Thirtieth (Reserve) Reconnaissance Regiment (Essex Regiment), C.A.C. 357 Cartier Place

MUNICIPALITY	NAME OF UNIT
WINDSOR	Windsor Detachment No. 30 Company Canadian Provost Corps St. Luke's Road
WOODSTOCK	Oxford Rifles Graham Street
NORTH YORK TOWNSHIP	R.C.A.F., No. 1 Equipment Depot North York Township (Weston P.O.)
	R.C.A.F.—War Staff College Wilson Avenue, Armour Heights

STEAMSHIPS

MUNICIPALITY	NAME OF STEAMER	OWNER
ST. THOMAS	"S.S. Pelee"	Pelee Shipping Company Limited 4 Flora Street
SARNIA	"S.S. Noronic"	Canada Steamship Lines Limited
"	"S.S. North American"	Chicago, Duluth & Georgian Bay Transit Company
"	"S.S. South American"	Chicago, Duluth & Georgian Bay Transit Company
TORONTO	"S.S. Assiniboia"	Canadian Pacific Railway Company Room 366, Union Station
"	"S.S. Keewatin"	Canadian Pacific Railway Company Room 366, Union Station
"	"S.S. Kingston"	Canada Steamship Lines Limited Queen's Quay, Foot of Bay Street
"	"S.S. Manitoba"	Canadian Pacific Railway Company Room 366, Union Station

SCHEDULE No. II

Hotel Authorities Transferred—(173)
April 1st, 1946 to December 31st, 1946

MUNICIPALITY	Name of Hotel	Transferred from	Transferred to
ALEXANDRIA	Alexandria	Weir, A. C.	MacLachlan, John A.
ALVINSTON	Columbia River Street	Bindner, C. W.	Betik, A. and Huzevka, M.
ANSONVILLE	Anson 65 Main Street	Lozier, Peter	Lauzon, Louis
"	Union Railway Street	Abramson, L.	Cousineau, T. and Lemire, A.
ARTHUR	Queen's	Gaffney, F. C.	Heffernan, D.
ATHERLEY	Atherley Arms	Atherley Arms Ltd. (S. Steinberg W. A. Armstrong A. H. Gardiner) (Transfer of Shares)	Atherley Arms Ltd. (W. Misinchuck M. Misinchuck A. Misinchuck)
AYR	Queen's Swan Street	Targonski, S.	Siemieniuk, O.
BADEN	Baden	Stofelmoyer, Mrs. E. D.	Zimmerman, G. T.
BATCHAWANA	Batchawana	Migneron, Chas. M.	Parr, James T.
BARWICK	Barwick	Strain and Gallo, S.	McCauley, R. H. and Gallo, S.
BELLEVILLE	Crystal 317 Front Street	Traverton, C. B.	Haggis, Paul
"	New Queen's 158 Front Street	Ryan, Mrs. Z. H.	Yanover, J. N.
BIGWOOD	Commercial	Loiselle, J.	Hennessey, Thos. A.
BRADFORD	Village Inn	Culham and Grant	Zaykowski, N.
BRANTFORD	Belmont 157 Colborne Street	Bailey, Harry and Mrs. F.	Creasey, Mrs. E. and Rixson, J.
"	New Butler 20 Dalhousie Street	Casey, Joseph	Reid, G. A. and Hodges, Thos.
BRONTE	Pig & Whistle Inn R.R. 1	Mullaney, John and Mrs. O.	Petroff, C. J. and Holubicki, Jos. and Rack, R.
BRUCE MINES	Bayview	Downey, W. J.	Cox, Russell H.
BURLINGTON	Sherwood Inn 35 Brant Street	Timleck, Mrs. L.	Smylski, Mrs. Doris
CALEDONIA	Exchange Argyle Street	Thacker, A.	Est. of A. Thacker
"	Exchange Argyle Street	Est. A. Thacker	Exchange Hotel Ltd.
CALONG	Waverley	Clarke, Wm. R.	Clarke, Gordon R.
CASSELMAN	Russell Main Street	Boileau, Rene	Landry, Hector

Municipality	Name of Hotel	Transferred from	Transferred to
CAYUGA	Campbell	Best, John O.	LaVieille, N. P.
"	Cayuga Talbot Street	Shippel, J. A.	Allewell, J. C.
CHATHAM	C.P.R.	Ange, Thos. L.	Ross, A. N. and Rosenberg, A. B.
"	East End 119 King St. E.	Blondell, G.	Obradovic, J. and Raguz, S.
"	Montreal 179 Grand Ave. W.	Campbell, Hugh and Milton	Campbell, Hugh
CORNWALL	St. Lawrence 900 Montreal Road	Mercier, Albert	Fox, George and Sheedy, B. and Mrs. E. O.
COURTRIGHT	Bedard's Front Street	Bedard, Mrs. L. J.	Caraher, Daniel D.
DUNNVILLE	Royal (New Royal) Maple Street	Hensgens, J. and Mrs. Mary	Casey, R. J. and T. J.
EAGLE RIVER	Cascade Hotel	Steiner, J.	Johnson, M. A. and Barrieau, J.
EAST YORK	Wallace 302 O'Connor Dr.	Wilson, G. A.	Overholt, H. F.
ELGIN	Empire Perth & Water Sts.	Est. P. J. Fahey	O'Connor, G. F. and Murphy, Mrs. A.
ELK LAKE	King Edward	Montpetit, E. and Sauve, L.	Sauve, L.
" "	Stonehouse Fourth Street	Rusich, Nick and Mrs. M.	Marion, Edward
EMO	Emo	Johnston, Geo. F.	Grodwick, M. and Chorny, Wm.
ERIEAU	Lakeview	Vucic, Vid. and Yandrash, I.	Yandrash, I.
FERRIS WEST	Lakeview Inn	Leach, Mrs. M.	MacLean, Mrs. E. I.
FIELD	Field	Sauve, Phillip and Leo	Sauve, Leo
FORT ERIE	Anglo American 280 Niagara Blvd.	Neichenbauer, A. A. and C.	Neichenbauer, A. and Yovetich, S.
" "	Erie Lane 33 Princess Street	Masich, F. J. and N. E.	Wlaydka, W. and Rozko, M.
FORT FRANCES	New Monarch Front Street	Pechet, W.	Pidlubney, G. and Kliner, H.
FORT WILLIAM	Adanac 227 Simpson Street	Est. D. L. Crites	Hanley, W. J.
" "	Alexandra	Zaroski, Wm.	Zaroski, John
GALT	New Albion 103 Water Street N.	Murray, A. H.	Bellmore, W. G. and Mrs. Agnes
GUELPH	Royal 106 Garden Street	Fischer, D. M.	Fischer, Bros. Ltd.
HAILEYBURY	Matabanick (M.A. Box 62)	Bulger, Mrs. J. F.	P. M. Fleming Ltd.
"	Matabanick (M.A. Box 62)	P. M. Fleming Ltd.	Fleming, N. R.

Municipality	Name of Hotel	Transferred from	Transferred to
HAMILTON	Avon 912 Barton Street E.	Smith, Leonard V.	Hammer, Fred W.
“	Brittannia	Watson, Mrs. J. Gladys	Masters, J. and Santomero, A.
“	King George 27 McNab Street N.	Hamilton Hotel Enterprises Ltd.	Salonen, Chas.
“	Melba 410 York Street	Traynor, D. P.	Chopik, W. P.
“	Prince Edward 737 Barton Street E.	Gral, Frank	Est. Frank Gral
“	Strand 262 Dundurn St. S.	Finch, H. T. and Shadney, Peter	Shadney, Peter and O. P.
HARRISTON	Coronation Elora Street	Watier, J. E.	Payne, A. B.
“	New Royal Inn	Park, Geo. E. and Geo. M.	Perry, Dale
HAWKESBURY	Royal	Martineau, O.	Castonguay, J. B., Albt., Marie, and Claire and Denault, Leslie
HEARST	Windsor	Chabot, L. and Dupont, R.	Hudon, Theophile
HORNEPAYNE	Hornepayne	Easton, Mrs. F.	Easton, N. A.
HUMBERSTONE	Duke's (Humberstone) 154 Main Street	Offord, A. G.	Humberstone Hotel Company, Limited
JACKSON'S POINT	Lake Simcoe	Gilbey, W. E.	Peace, E. M.
JORDAN	Jordan Inn	Harding, E. W.	Tys, Walter
“	Dwarf Village Inn	Bolus, Mrs. E.	Kozak, I. and Marsh, Alex
KAPUSKASING	Commercial 5 O'Brien Avenue	Desgroseilliers, C.	Desgroseilliers, O.
KEARNS	Park Government Road	Ferianz, M. and Korbel, J.	Ferianz, M.
KENORA	Dalmore Main Street	Est. J. W. Sauerbrei	Kochayda, Miss Eva
“	Dalmore Main Street	Kochayda, Miss E.	Melnyk, Mrs. Eva
KEYSTONE ISLAND	Keystone Camps	Fischer, R. S. and Charles	Keystone Properties Ltd.
KINGSVILLE	Kingsville Main Street	Vassar, J. S. and A. A. and Weir, B.	O'Malley, W. P. and Egan, Mrs. S.
KINGSTON	British American 42 Clarence Street	Megaffin, N. D. and Epstein, L. W.	The Randolph Hotel Company, Limited
“	LaSalle Bagot Street	Randolph Hotel Company Ltd. (J. Mitchell Mrs. J. Mitchell J. P. Fournier J. Gallvin Est.) (Transfer of shares)	The Randolph Hotel Company, Limited (L. W. Epstein N. D. Megaffin N. Perlmutter and Co.)
“	Prince George Ontario Street	Fitton, Mrs. S. L.	Amey, W. J. and F. L.

MUNICIPALITY	Name of Hotel	Transferred from	Transferred to
KIRKLAND LAKE	Federal Federal and Day Sts.	Beauchesne, J.	Rondeau, J. A.
" "	Prince George	Desgroseilliers, C.	Ducheneau, A. and Lavigne, C.
LANCASTER	Commercial	Leigh, Maurice	Leger, Lorenz
LARDER LAKE	Grainger 205 Godfrey Street	Grainger, J. H.	Gadzala, V.
LASALLE	Chateau LaSalle	Lavin, J. H.	Chateau LaSalle Ltd.
"	Sunnyside	Terpankas, D.	Terpankas, D. and Rezler, A.
LONDON	Park 920 Dundas Street	Deesides Holdings Ltd.	Soloway, M. and Bobrowsky, H.
LUCAN	Central Main Street	Parker, John S.	Sitzer, Samuel
MATACHEWAN	Riverview Lot 19, Mayneur Ave.	Crow, S. A.	Simons, Harry L.
MILDMAY	Station	Weatherhead, C. T.	Walters, Murray F.
MIMICO	Sagamore 160 Lakeshore Road	Doughty, Mrs. B. J.	Holmes, Thomas and Mrs. S. and Thorndike, J. Jr. and Mrs. R.
MINDEN	Rockcliffe	Campbell, M. and Winch, L.	Harding, E.
MISSANABIE	Kinahan's	Kinahan, F. M.	Debrie, Michael
MOUNT FOREST	Belmont	Collins, J. M.	Hallal, Chas.
McGREGOR	McGregor	Tiffin, L.	Poole, Mrs. Grace and K. St. G.
McKENZIE ISLAND	Gold Eagle	Gold Eagle Hotel Co. Ltd. (Chas. St. Paul) (Transfer of shares)	Gold Eagle Hotel Company Limited (Chas. Oliver)
NIAGARA FALLS	King Edward 659 Clifton Avenue	Mark Egan Hotels Ltd.	Davey Hotels Ltd.
NIAGARA-ON-THE-LAKE	Prince of Wales	Sadoway, Jas. and Prysko, J. H.	Prysko, John H.
NEWCASTLE	Elmhurst	Purdy, Mrs. M.	Taylor, James and Mrs. Daisy
NEW HAMBURG	King Edward Waterloo Street	Zimmerman, G. T.	Meeker, C. H.
" "	Commercial	Paul, S.	Chornolytky, W. and Lucyshyn, N.
NEW LISKEARD	Windsor	McLean, A.	Darwin, Mrs. A. G. and Edwards G.
OSHAWA	Genosha 70 King Street, E.	Hotel Genosha Ltd. (various shares) (Transfer of shares)	Hotel Genosha Ltd. (M. G. Lawrence)
"	Genosha 70 King Street, E.	Hotel Genosha Ltd.	Hotel Genosha (Oshawa) Ltd.
OTTAWA	Albion 1 Daly Avenue	Laframboise, Mrs. S.	Touhey, Wm. J.

MUNICIPALITY	Name of Hotel	Transferred from	Transferred to
OTTAWA	Bytown Inn 71 O'Connor Street	Brigham, T. G.	C. J. Smith Estate Company Limited
"	Duke 99 Duke Street	Korsa, Nicholas	Reshitnyk, D., Sabat, W. and Lailiuk, P.
"	Plaza	Plaza Hotel Co. Ltd. (Thos. Barton) (Transfer of shares)	Plaza Hotel Co. Ltd. (Mrs. Lita Steven)
PEFFERLAW	Belvedere	Beliski, J. P.	McMillan, G. I.
PERTH	Imperial 25 Wilson Street	Lambert, Mrs. E.	Lambert, E. J. and Miss M. E.
PETERBORO	American 189 Hunter Street	Blodgett, Mrs. P.	Sheedy, F. K. and E. J.
PORT ARTHUR	Waverley 54 N. Cumberland	Kelly, J. J.	Pasternak, W.
PORT COLBORNE	Ritz 201 Welland Street	Ferrarelli, Mrs. P.	Conn, Mrs. O. L.
PORT DOVER	Commercial Main Street	Montgomery, L. A.	Shanks, H. and Manning, E. W.
" "	Erie Beach	Brugos, Mrs. M. and Almassy, G.	Schneider, H. J.
PORT DALHOUSIE	Port 6 Front Street	Chaikowski, D. and Kmit, Y.	Chaikowski, D.
PORT ROWAN	Baycliffe Main Street	Pickerd, Mrs. Maude	Krestel, John
PRESTON	Sulphur Springs 240 King Street	Markus, J.	Wexler, Jas.
RIDGETOWN	Arlington	Campbell, W. T.	Siskind, J. A.
RIVERSIDE	Lauzon Stop Inn 3340 Wyandotte St.	Bacon, George	Mandich, George
ROUGE HILLS	Glen Eagle Manor	Dneiper, P.	Chizen, M. and Bilida, J.
ROSSEAU	Monteith Inn	Shopsowitz, Harry	Shopsowitz, Mrs. J.
RUSSELL	Russell Mill Street	Sculland, F. M.	Contant, Arthur
SARNIA	Colonial 156 N. Christina	Morrison, J. F.	Est. J. F. Morrison
"	Windsor 210 N. Christina	Taylor, Chas. A.	Hotel Windsor of Sarnia Limited
SANDWICH EAST	Samson 4715 Tecumseh St.	Fleming, A. J.	Est. A. J. Fleming
" "	Samson 4715 Tecumseh St.	Est. A. J. Fleming	Fleming, John R.
SANDWICH WEST	Elmwood	Elmwood Hotel Co. (A. J. Gilboe and W. G. Fielding) (Transfer of shares)	Elmwood Hotel Co. Limited (Harry Lahman)
SAULT STE. MARIE	Lock City 874 Queen Street E.	Petroni, E. M.	Manchulenko, Metro
SCHUMACHER	Eldorado 12 First Avenue	Pupich, Chas.	Pupich, Chas. Jr.
"	Recreation	Larche, Nobile	Bergamin Pietro

Municipality	Name of Hotel	Transferred from	Transferred to
SHANNONVILLE	Wayside Inn	Rierdon, Misses B. and M.	Ryan, Mrs. Z. H. and Power, Miss M.
SIMCOE	Queen's 110 Robinson Street	Ramey, E. V.	Thompson, Leighton S.
SIOUX LOOKOUT	Lakeview 48 Front Street	Dillabough, J. A.	Spence, A. T.
" "	Moberley (Russell) 158 King Street	Moberley, Mrs. E. J.	Moberley, Douglas F.
" "	Moberley (Russell) 158 King Street	Moberley, D. F.	Ratcliffe, R. R.
SMITHS FALLS	Arlington 21 Beckwith Street	Dillon, J. and McNicholl, B.	Hurst, W. C. and Walker, N. J.
" "	Russell 2 Beckwith Street	Russell Hotel (Smiths Falls) Ltd. (G. F. O'Connor A. E. Walters N. Korsa) (Transfer of shares)	Russell Hotel (Smith Falls) Limited (Bohdan Korsa and A. E. Walters
SMOOTH ROCK FALLS	Elite	Philipchuk, Mrs. E.	Philipchuk, Mrs. E. and Robokon, S.
" "	Union	Thiboutot, X.	Belanger, Jos. A.
SOUTH PORCUPINE	Central 84 Bruce Street	Cimetta, Mrs. M. and Leone, J.	Cimetta, Mrs. M.
"	Gold Range 85 Golden Avenue	Dagenais, Paul	Dagenais, Mrs. Maude
STAMFORD	Montrose	Snell, F. A. and Antonio, J.	Gambell, W. A.
STRATFORD	Kent 209 Waterloo Street	Ruf, Emil	Graham, Mrs. O. M. and Wm. H.
ST. AGATHA	Prince of Wales	Kittel, H. E.	Eicheldinger, E. C. & Winterhalt, C. T.
ST. CATHARINES	Welland House 30 Ontario Street	The Welland House Limited (L. B. Spencer & Stella Spencer) (Transfer of shares)	Welland House Ltd. (L. W. Burt and R. J. Sassone)
ST. CHARLES	St. Charles	Dambrauskas, O.	Henderson, E. E. and Mrs. B.
ST. ONGE	Commercial	Brisson, H. A.	Richer, John
ST. THOMAS	International 825 Talbot Street	Turner, Lorne	Service Hotels Company Limited
" "	Queen's 741 Talbot Street	Deratnay, M. G.	Roulston, W. J.
TAMWORTH	Queen's	Courneya, E. J.	Davison, R. H.
TECUMSEH	Renaud's Inn 103 Tecumseh Road	Fraba, Claire and Dudley, Lloyd	Dudley, Lloyd
TEMAGAMI	Ronnoco	Temagami Outfitting Co. Ltd.	Ontario Northland Transportation Commission
THESSALON	O'Connor Main Street	O'Connor, C. H.	Luhta, W. and Mitchell, L.

Municipality	Name of Hotel	Transferred from	Transferred to
TILLSONBURG	Imperial 30 Broadway Street	Bringloe, Mrs. A. E.	Grant, Chas. E.
TILBURY	Recess Queen Street	Beselaere, R.	Jarkowiec, F. and Sholomicki, J.
TIMMINS	Albert's 52 Mountjoy	Mongeon, J. A.	Teidermann, Wm. and Leone, G.
“	Timmins 56 Fourth Avenue	Jamsa, Mrs. A.	Orr, Mrs. A.
TORONTO	Broadview 106 Broadview	Dunlop, A. E.	Dunlop, Est. of A. E.
“	Brunswick 481 Bloor Street W.	Davidson, Mrs. K.	Davidson, Mrs. K. J. C. and W. B.
“	Clifton 298 Queen St. W.	Bobechko, P. and Yasmanicki, J. P.	Bobechko, P.
“	Carls-Rite 174 Front Street W.	Penninsula Hotel Company, Ltd.	Front & Simcoe Ltd.
“	Drake 1150 Queen St. W.	Lundy, M. and Greenbaum, J.	Lundy, M.
“	Hotel DeFrance 30 Hayden Street	Zamiszczak, J. Korenowsky, W. Hrytzko, M.	Korenowsky, W. and Hrytzko, M.
“	Rideau 335 Jarvis Street	Bruno, L.	Fabian, P., Bilous, W., Solski, J. and Maksymonko, D.
“	Riviera 197 King Street E.	Humeniuk, T. and Szyko, Mrs. M.	Mislowski, A. and E. and Dublanski, C.
“	Scholes 203 Yonge Street	Scholes Hotel Ltd.	Hotel Albert Ltd.
“	Prince George 91 York Street	Prince George Hotel Company, Ltd.	Model Hotel Company Limited
“	Stafford 940 Danforth Ave.	Hotel Stafford Ltd.	Hotel Stafford (Toronto) Ltd.
TOTTENHAM	Maple Leaf	Thompson, R. L.	Roche, C. A. and Hurst, Mrs. M. H.
VIRGINIATOWN	McGarry Webster Street	McGarry Hotel Ltd. (B. Nosov) (Transfer of shares)	McGarry Hotel Ltd. (Sam Pozen and Helen Rosenfield)
WALLACEBURG	Tecumseh 52 Duncan Street	Mahoney, Andrew J.	Est. of A. J. Mahoney
WEBBWOOD	New Windsor	Cayen, J. N.	Dennie, Frank J. Jr.
WINDSOR	Bellvue 1271 Sandwich St. E.	Mandich, G. and Opacich, S.	Bacon, George
“	Coronation 1521 Sandwich St. W.	Coronation Hotel (Windsor) Ltd.	Mandich, M. and Vincetic, A.
“	International 932 Drouillard Road	Shamess, Mrs. N.	Bolohan, G. N. C.
“	Essex House 317 Sandwich St. W.	Kovarbacich, P. and Todorovich, S.	Kovarbacich, Peter
“	Howard 1534 Howard Ave.	Foley, Mrs. Mary	Nykilchuk, Peter
“	Lincoln	Lincoln Hotel (Windsor) Ltd. (Zarkovich, Daniel and Mrs. D. L.)	Lincoln Hotel (Windsor) Ltd. (Stanley Opacich) (Transfer of shares)
“	Martin 1325 Langlois Ave.	Markcity, N. and Alaica, J.	Markcity, N. and Kralovensky, A. and Yurik, A.

SCHEDULE No. III

Authorities Suspended—(83)

April 1st, 1946 to December 31st, 1946

Municipality	Name of Hotel	Name of Owner	Period	
			from	to
AMHERSTBURG	Luciers'	D. Lucier	Dec. 26	(still in force Dec. 31, 1946)
BARRIE	Queen's	Cween's Hotel (Barrie) Ltd.	Aug. 8	Aug. 16
BELLE RIVER	Belle River	C. J. Parent	Sept. 28	Oct. 12
BIGWOOD	Commercial	J. Loiselle	Oct. 9	Dec. 16
BRADFORD	Queen's	H. J. and F. M. McEvoy	Dec. 7	Dec. 16
“	Village	N. Zaykowski	Dec. 7	Dec. 16
BRANTFORD	New Butler	J. Casey	June 7	June 17
CACHE BAY	Cache Bay	J. Arcand	Dec. 6	Dec. 14
“ “	Traveller's	L. St. George	Apr. 1	Apr. 5
CALONG	Waverley	W. R. Clarke	Oct. 4	Dec. 6
CHATHAM	Canadian Legion Branch No. 28		Aug. 6	Aug. 14
“	Chatham Golf & Country Club		May 4	May 18
“	Chatham	J. B. Kerr	Sept. 28	Oct. 12
CHIPPAWA	Riverside	G. Sainovich	Dec. 10	Dec. 18
CHUTE A BLONDEAU	Central	D. Martineau	July 6	July 20
COBOCONK	Pattie House	G. J. Cheney	Aug. 16	(still in force Dec. 31, 1946)
CURRAN	Curran	V. Laframboise	Aug. 24	(still in force Dec. 31, 1946)
ELK LAKE	King Edward	L. Sauve	Aug. 24	Sept. 9
ETOBICOKE	Old Mill	Valley Improvement Company Limited	May 7	May 18
FORT ERIE	Merview	M. Compton	April 1	April 13
FORT FRANCES	Emperor	Geo. Pidlubny	Aug. 24	Sept. 9
FORT WILLIAM	Alexandra	Wm. Zaroski	Apr. 1	Sept. 11
HEARST	Windsor	R. Dupont and L. Chabot	May 21	June 3
HORNEPAYNE	Hornepayne	Mrs. F. Easton	Apr. 26	May 13
“	Taylor's	R. J. and Mrs. A. M. Taylor	Apr. 26	May 20
HANMER	Joffre	L. B. Cayen	June 14	June 24
KINGSTON	New Windsor	Mrs. J. S. Gilmour	Apr. 1	Apr. 6
“	New Windsor	Mrs. J. S. Gilmour	Dec. 5	Dec. 13

Municipality	Name of Hotel	Name of Owner	Period	
			from	to
LINDSAY	Kent	S. Parkin, J. Muzyka and W. Pary	June 27	July 10
LONDON	Sunnyside	A. Hassan	Apr. 13	Apr. 29
MARTIN RIVER	Beaverland	A. J. J. Handley	Aug. 24	Sept. 9
MINDEN	Dominion	K. B. Watson	Oct. 4	Oct. 12
NAPANEE	Paisley	E. and Mrs. J. A. Tyson	Nov. 2	Nov. 27
NIPIGON	Nipigon Inn	W. Hogan	July 8	July 20
NOELVILLE	LaSalle	E. Bergeron	Nov. 4	Dec. 4
NORMAN	Norman	A. Rychlo	Sept. 20	(still in force Dec. 31, 1946
NORTH BAY	Empire	Empire Hotel Co. of Timmins	Dec. 6	Dec. 13
OAKVILLE	Oakville House	G. D. Gray	Dec. 26	Dec. 31
OSHAWA	Genosha	Hotel Genosha Ltd.	Oct. 26	Nov. 1
OTTAWA	Bytown Inn	T. G. Brigham	Apr. 1	May 2
“	Grad's	Grad's Hotel (Ottawa) Ltd.	Oct. 26	Nov. 8
“	King Edward	Terminal Hotels Limited	Apr. 1	Apr. 10
“	Royal	Davis Hotel Co. Limited	Nov. 4	Dec. 6
“	Victoria	P. G. Charos	Apr. 1	May 15
PEMBROKE	Mackey House	E. R. Costin	Oct. 18	Nov. 1
PORT ARTHUR	Canadian Legion Branch No. 5		Apr. 18	May 1
“ “	Kimberly	G. Burstrom	Nov. 4	Nov. 11
“ “	Vendome	J. O. Burstrom	Nov. 6	Nov. 13
“ “	Waverley	Wm. Pasternak	Dec. 13	Dec. 28
RIVER CANARD	Palm Beach	Mrs. A. Desjardin	Nov. 4	Dec. 5
RIVERSIDE	Riverside Yacht Club		Sept. 28	Oct. 12
SAULT STE. MARIE	Algoma	W. M. N. Cohen	Apr. 1	Apr. 17
“	Algoma	W. M. N. Cohen	Aug. 16	(still in force Dec. 31, 1946)
SCARBORO	White Castle Inn	White Castle Inn Limited	May 3	May 11
“	White Castle Inn	White Castle Inn Limited	May 31	July 24
ST. CATHARINES	Ontario	M. Bagdasarian	Dec. 5	Dec. 13
SUTTON WEST	Mansion House	S. J. Jamieson	July 31	Aug. 7
TEMAGAMI	Goddard's	E. F. Goddard	Apr. 1	May 3
THOROLD	Pine	J. Kociulyn	July 22	July 29
TIMMINS	Mount Royal	N. Curik and W. Moskol	June 29	July 6

Municipality	Name of Hotel	Name of Owner	Period from	Period to
TORONTO	Alexandra	J. Humeniuk	Apr. 1	Apr. 15
"	Brockton	Brockton Hotel Limited	Apr. 25	May 3
"	Carls-Rite	Peninsula Hotel Company Limited	Apr. 1	June 26
"	Dominion	R. A. Shore	June 7	June 17
"	Edwin	D. Sher and S. Saltzman	Apr. 1	Apr. 12
"	Imperial	J. Newman	Nov. 22	Nov. 29
"	Lansdowne	Lansdowne Enterprises Limited	July 12	July 22
"	Maple Leaf	E. J. Sullivan	Aug. 24	Sept. 2
"	New Windsor	J. G. Mullen	Aug. 7	Aug. 15
"	Paramount	L. Starkman	Sept. 25	Oct. 2
"	Scholes	Scholes Limited (John R. Scholes)	May 6	May 13
"	Sheldon	H. P. Young	July 30	Aug. 6
"	Simcoe	C. J. Fox	Aug. 7	Aug. 15
"	St. Regis	St. Regis Hotel Limited	Aug. 22	Sept. 6
"	Star	F., J., Lamb and Miss E.	Sept. 28	Oct. 12
"	Scottish Club		July 12	July 29
"	Waverley	Waverley Hotel Limited	July 5	July 18
WINDSOR	Frontier Social Club		Oct. 5	Oct. 18
"	Grand Central	Mrs. E. M. Graveline	Nov. 15	Nov. 29
"	Howard	Mrs. M. Foley	Sept. 28	Oct. 15
"	International	G. N. C. Bolohan	Dec. 23	(still in force Dec. 31, 1946)
"	Metropole	Metropole Hotel Windsor Limited	Nov. 29	Dec. 11
"	Temple	N. Poitras	Dec. 26	(still in force Dec. 31, 1946)

SCHEDULE No. IV

Statement of Expenses

April 1st, 1946 to December 31st, 1946

Salaries	$ 72,837.27
Rent	1,620.00
Equipment Rental	135.00
Travelling Expenses	32,037.67
Deputy Registrars' Remuneration	4,798.08
Superannuation	1,037.64
Postage	1,275.30
Printing and Stationery	2,302.06
Telephone and Telegraph	764.83
Light, Heat and Power	135.00
Advertising re Meetings	375.41
Reports	680.40
Miscellaneous	374.87
Maintenance—Caretaker Services	778.50
Audit Fees	2,250.00
TOTAL	$121,402.03

REPORT

OF THE

MINISTER OF TRAVEL AND PUBLICITY

PROVINCE OF ONTARIO

FOR THE FISCAL YEAR

1947 - 1948

Printed by order of
THE LEGISLATIVE ASSEMBLY OF ONTARIO

Sessional No. 51, 1948

ONTARIO

TORONTO
Printed and Published by The Printer to the King's Most Excellent Majesty
1948

To:

The Honourable Ray Lawson, O.B.E., LL.D.,
Lieutenant-Governor of the Province of Ontario, in Council.

May It Please Your Honour:

The undersigned has the honour to transmit herewith the Second Annual Report of the Department of Travel and Publicity, for the fiscal year, 1947-48.

I have the honour to be, sir,

Your obedient servant,

Arthur Welsh.

Minister of Travel and Publicity.

Toronto, Ontario,
April 2, 1948.

REPORT OF THE DEPUTY MINISTER

To: The Honourable Arthur Welsh, D.S.O.,

Minister of Travel and Publicity.

The undersigned has the honour to submit herewith the second annual report of the activities of the Department of Travel and Publicity for the period, April 1, 1947 to March 31, 1948.

In presenting this summation of departmental activities, I should like to direct your attention to several of the more significant aspects of the Department's operations during the past twelve months.

First of these is that Ontario continues to receive the major share of Canada's tourist business. This can be attributed to a number of factors: the proximity of this province to the large centers of population in the United States; the numerous international crossing points along more than 1,500 miles of our provincial international boundary which are connected with our vacation and resort areas by a network of paved highways which is unparalleled elsewhere in the Dominion; and the enterprise and energy of a large group of travel promotion organizations which have striven tirelessly to supplement the efforts of our own publicity branch.

The year just ended was the second successive one in which the volume of visitors to this province exceeded all previous records. More than one million tourist automobiles entered from the United States in 1947, exceeding by more than 100,000 the previous high mark of 1946. The pre-war record was in 1937, with 828,000 vehicles. (*)

These passenger tourist car entries, representing only vehicles remaining in Canada for 48 hours or more, or travelling beyond their original port of entry, represented 60.4 percent of all such travel permits for the whole of Canada, and amounted to an increase of 11 percent in volume over the preceding year.

With the exception of rail travellers, all other classes of foreign visitors to Ontario showed an increase last year. Rail entries declined by 12.6 percent, but admissions by boat increased by 24.3 percent, by bus 14.1 percent and by aeroplane 8.3 percent.

Estimate 18 Million Visitors

The gross volume of border crossings in Ontario from the United States, including persons travelling by local bus, on foot and the so-called "in transit" group travelling between U.S. points, amounted to approximately eighteen million persons. (†) Although many of these made visits of relatively short duration, their expenditures helped materially to swell the flow of badly-needed foreign currency and were an important factor in the economic life of many of our border communities.

A preliminary estimate of the value of Ontario's tourist industry in 1947 indicates that the province derived approximately 147 million dollars from foreign visitors, an increase of about 20 millions over the preceding year. This, of course, does not take into account the revenues from interprovincial travel concerning which no estimates can be secured.

The one unfavorable feature of the 1947 tourist picture is to be found in the tremendously increased expenditures by our own people on travel outside Canada. Although this is not primarily a problem for a provincial government, nevertheless it is cause for some concern since provincial policies in tourist matters have reflected the country's pressing need for

(*) — See Appendix "A"
(†) — See Appendix "B"

foreign exchange in the post-war period. During 1947 Canadians travelling abroad (principally in the United States) expended 167 million dollars, leaving a net balance in our national tourist account of about 75 millions.

Assemble Film Library

Your attention is further directed to the summary of activities of the Publicity Branch which forms a section of this Report. During 1947 the Department substantially increased its promotional activities, making use of most of the recognized media for publicity and placing greater emphasis upon meeting the steadily growing demand for motion pictures and upon inducing outstanding writers and photographers to visit Ontario to observe our attractions at first-hand. Good progress is being made in assembling a film library and plans are now in hand for the release of three additional motion pictures, made in 1947, during the coming months. These deal with the Lake of the Woods area, Nipigon and the Canadian Lakehead, and with winter sports. All are 16 m.m. in color with sound.

During 1947 all of the Department's travel publications were completely revised and the new editions met with a highly favorable response. A second booklet which dealt with the Rideau Lakes system was issued as part of the "Waterways to Explore" series and a unique air map was developed for distribution to private pilots desiring information concerning Ontario's air travel facilities.

In addition to dealing with the large volume of mail enquiries received throughout the year, the Information Branch operated twelve official reception centers, eleven of these being situated at points adjoining the international border. The most recent one to be opened was at Kenora-Keewatin, serving visitors coming into the province from Manitoba. Because of the difficulty of securing a suitable building, it was not possible to proceed in 1947 with the installation of a center at Pigeon River, but plans are now under way to establish such a unit at this highly important point by early summer of 1948.

As an indication of the value of these centres, nearly 250,000 parties of tourists (*) made use of their facilities during the year, the bulk of these being United States citizens. Nearly 7,000 telephone calls were placed by our representatives in assisting the visitors to secure accommodation and it is evident that in the face of the greatest number of tourists in our history, the absence of evidences of overcrowding throughout the busy July-August period was largely attributable to the system of "contacts" built up by the Department with co-operative and alert tourist organizations.

Inspected 2,600 Camps

Although the Regulations made pursuant to The Tourist Camp Regulation Act 1946 are not effective until April 1, 1948, the Department's Development Branch last summer instituted a system of inspection during the course of which approximately 2,600 tourist camps were visited. Our inspectors encountered a readiness on the part of operators to improve their facilities and services, and were able to indicate action necessary to comply with the Regulations. The value of licenced inspection was borne out by the securing in a number of instances of licences in advance of the required date.

An important step forward in developing interest in Ontario's winter

(*) — See Appendix "C"

vacation possibilities was the inauguration of a snow report service, in co-operation with the major communication companies, through their telegraph divisions. Twice weekly, representatives designated by the Department forwarded reports to Toronto of snow conditions in their districts and these were in turn passed on to newspapers and radio stations in the United States and Canada. As a consequence, throughout the winter season, newspaper readers and radio listeners were constantly reminded that Ontario offers attractions to the winter vacationist.

Schools for ski instructors were again operated in the Muskoka and Canadian Lakehead areas and were well attended. In addition, survey work was carried out at several points in the province to determine the possibility of additional development. The past winter saw more than 40 ski tows in operation, approximately twice the number which were available in the preceding year.

New Division is Instituted

With the formation in August of a Division of Public Information, the Department's scope was broadened to encompass more than the field of travel promotion and development. One of the first undertakings of the Division was the publication of a twice-monthly "Ontario Government Services" bulletin which provides in interesting fashion, information on the various activities of government and its component departments. Additionally, the Division performed valuable service in co-ordinating publicity and advertising activities throughout the entire government service.

In appraising the year just concluded, the Department must acknowledge its appreciation of the assistance rendered by numerous organizations and individuals. At the Second Annual Dominion-Provincial Travel Conference held at Ottawa in October, important steps were taken to improve publicity and promotional activities of all the Provinces, together with the Canadian Government Travel Bureau and the large transportation systems. At the same time a number of co-operative procedures were developed in conjunction with these groups which will prove of substantial benefit.

Through the Canadian Association of Tourist and Publicity Bureaux, representatives of the Department were enabled to work in concert with various other agencies toward the solution of some of the more pressing problems of national and provincial import. The Department also undertook the responsibility of implementing the Ontario phase of National Tourist Service Education Week sponsored by this Association.

The Northern Great Lakes Area Council in which the Ontario Government has played an important part since its formation in 1945 continued to show progress. Ontario literature and detailed travel information is now being distributed through the official travel promotion agencies of Michigan, Wisconsin and Minnesota, and this service is being reciprocated in our various bureaux in this province. Plans are now in progress for a co-operative advertising campaign, including the production of a unique map of the area, which will have much effect, it is hoped, in fixing in the public mind the recreational attractions of this most generously endowed area.

The Department has had frequent occasion to consult with and secure the assistance of the principal travel organizations within the Province; the Hotel Association of the Province of Ontario; the Resorts Section of this Association; the Northern Ontario Outfitters Association; the Toronto Convention and Tourist Association; and a large number of regional and local tourist organizations, boards of trade and chambers of commerce. To these groups grateful acknowledgment is made.

Respectfully submitted,

TOM C. McCALL,

Deputy Minister.

REPORT OF THE PUBLICITY BRANCH

With the increase of world travel possibilities and as competing areas in the United States moved their promotion programs into high gear, it has become necessary for the Department's Publicity Branch to broaden its scope, both in advertising and in the wider field of publicity activities.

The Departmental publications form the pattern of Ontario publicity and during the past year approximately one million booklets and pamphlets were issued as direct productions of this Branch. This figure is exclusive of the Official Government Road Map which is prepared and printed by the Department of Highways, and the million figure is, of course, only a part of the much greater total of brochures distributed by the Department as a whole.

In the class of "come on" or "invitation" literature issued in 1947 were: the colorful folder "Ontario, Your Best Vacation Bet" (100,000 copies); and the more elaborately illustrated booklets "Southeastern Ontario", "Southwestern Ontario", "Central Ontario", "Northern Ontario", and "Northwestern Ontario" (60,000 copies of each). For the sportsman, "The Fisherman's Ontario" was added, with a total of 100,000 copies printed. The colored reproductions of Ontario game fish which appear in this booklet were regarded as being particularly noteworthy. Material in this booklet was checked by the Department of Lands and Forests from the standpoint of technical accuracy.

To meet the demand for straight informational material, the Department compiled "With Rod and Gun in Ontario" and "Where to Stay in Ontario". The former listed all licensed hunting and fishing camps north of the Parry Sound-Mattawa line, while the latter listed hotels, resorts, lodges, cabin camps and trailer parks throughout Ontario. During the year work was done to combine these two booklets for the 1948 season, this step being taken to provide complete information as to all accommodation facilities within the covers of one volume.

Another factual booklet which proved its worth in 1947 was "Flying Facts About Ontario". This was extensively circulated in the United States among private plane enthusiasts and was also used in Canada by transportation authorities as a ready reference as to facilities available in Ontario. This folder has been enlarged and is being reprinted for the 1948 season.

New Brochure on Waterways

Following the success of the booklet, "Waterways to Explore — The Trent", a similar publication was issued in 1947 describing the Rideau waterway. During the summer of 1947 material was also assembled for the publication of the third volume in this series, dealing with Lake of the Woods.

To meet a constant demand for information for schoolroom use, research was also done preparatory to the publication of an "Ontario Factfinder". This is in poster form, suitable for a teacher to hang on a blackboard and to use as the basis of a lesson. Only basic facts are being supplied so that the teacher may add to them according to the time at her disposal. The poster is illustrated with several photographs and drawings which may be cut out and used in the schoolroom projects which most pupils prepare; and in this way the material will reach the home. When the "Ontario Factfinder" is mailed to an adult, it will also be accompanied by copies of our general vacation literature.

In preparation for the winter season of 1947-8 the winter sports folder first produced in 1946 was reprinted with the addition of a full-color photo on the cover and news of winter sports developments in the copy.

As a means of realizing our policy of improving the standard of brochures offered to the travelling public by the resort trade in general, the services of the Publicity Branch were made available to Ontario camp and resort owners to assist them in preparing new folders for the 1948 season. A large number of operators took advantage of this service and it is felt that, as a result, there will be considerably more and brighter pamphlets in the Ontario vacation picture.

The 1947 Advertising Campaign

During the past year the Department's advertising efforts were designed to promote the distribution of the new literature. In the United States magazine field, women's, fraternal, motor and travel and teachers' publications were used to publicize the general vacation attractions of the Province. Coupons attached to the advertisements offered the pamphlet, "Ontario, Your Best Vacation Bet" and the five regional booklets; while the outdoors magazines were used to draw attention to the booklet, "The Fisherman's Ontario," and "With Rod and Gun in Ontario"; and the "Waterways" series was advertised in a selected list of boating publications. These advertisements appeared during the months of March, April, May and June.

The same procedure was followed with respect to the newspaper campaign with advertisements run in April and May in approximately forty metropolitan newspapers in fourteen states. These advertisements were followed in selected papers along the border, by mid-summer copy featuring the autumn vacation attractions of the Province.

In addition to the over-all coverage secured through the use of a carefully plotted pattern of newspaper and magazine advertising, advertisements were placed in a number of magazines and trade papers which offered special groups of readers; i.e. the American Automobile Association Tour Book, Travel Agent Magazine, etc.

To supplement United States advertising, a Canada-wide campaign was instituted with the purpose of pointing out to other Canadians the possibilities of pleasant vacationing in Ontario. These advertisements appeared in most city and large town newspapers from coast to coast, Ontario excepted, and in most of the larger Canadian magazines. Response was excellent and the data gathered has served as a guide in planning the 1948 campaign. The development of this latter campaign as well as that for the American advertising in the 1948 season constituted a considerable part of the work of the Publicity Branch during the latter part of the fiscal year under review.

American Pubishers Guests

The fourth annual U.S. Press Goodwill Tour was held early in June and in this project the Department once again received the co-operation of the Canadian Weekly Newspaper Association and the Hotel Association of the Province of Ontario. The visitors included representatives of the state press associations of New York, New Jersey, Pennsylvania, Ohio, Michigan, Kentucky and Illinois. During their stay here our guests covered approximately 1,500 miles by chartered bus and boat and secured editorial material which was widely published in the press of their respective states. While the trip was in progress a motion picture in color was made and prints of this have been circulated among those who were on the tour, for screening before service clubs, travel groups, schools, etc.

To extend further this important phase of the publicity program, a second tour was organized for the purpose of showing the variety of sportsmen's attractions which exist throughout Ontario's vast north country. A group of eight writers, chosen from a select list of outstanding outdoors and feature editors, travelled by private railway car a distance of nearly four thousand miles, from Toronto to the Manitoba border and return, with stops at such points as North Bay, Callander, Sudbury, Thor Lake, Sioux Lookout, Kenora, Minaki, the Canadian Lakehead, Nipigon and Chapleau. The visitors were given an opportunity to fish and also to take part in the Spring bear hunt. As a result of their trip many columns of space were devoted to Ontario's attractions in the newspapers and magazines represented by this group.

A less evident feature of the work of this Branch is the contact activities and correspondence with persons whose writing can serve the purpose of stimulating interest in travel in Ontario. Regular weekly travel stories go forth to 700 travel editors and outdoors writers in the United States and are supplemented by additional releases, as required, which deal with events of special importance. During 1947 this coverage was extended to numerous radio commentators and to a large number of Canadian outlets. A great deal of research is involved in assisting independent authors in the preparation of stories. In most cases it is difficult to show tangible results directly from these efforts but their value is evident in the increasing numbers of writers and photographers who request the Publicity Branch for this type of assistance. It is felt in the Department that this type of "ghost work" is important since a travel story submitted to a publication from an independent source has more chance of acceptance than one whose source would indicate an obvious bias or interest.

The release of travel news is also supplemented by the distribution of a large number of black-and-white and color photographs from a file now being built to comprehensive size within the Department. The number of requests by mail for photographs varies from two to ten per day, according to season; and as many more by personal application. During 1947 a file of 4 x 5 color transparencies was begun and this size will gradually replace the 2 x 2 slides which were used during the war years.

Travel Films Popular

Distribution of travel films in 16 mm. size has become increasingly important, and during 1947 the pictures, "Algonquin Adventure", "Manitoulin Holiday", "Northern Autumn" and "Land of Niagara" were in constant circulation throughout the United States and Canada. Showings were given before audiences ranging in number from 75 to 500 persons, drawn from service clubs, sportsmen's organizations and teacher and pupil groups. To simplify customs difficulties it was arranged to handle U.S. distribution henceforth through the offices of the National Film Board of Canada at Washington, while Canadian distribution is arranged through the Department office at Toronto.

These films have also been shown at a number of exhibition theatres, such as the theatre of the Detroit News Travel Show and the Canadian National Exhibition. In December they were also put into circulation throughout Florida, Texas and California by a representative of the Department who visited the principal trailer camps in these states.

In addition to the films produced by or for the Department itself, distribution has been arranged for "Call of the Kawarthas" supplied by the city of Peterborough, "Escape to the North" supplied by the Ontario Northland Railway, and "Portrait of a City" supplied by the city of Hamilton.

A silent film in color entitled "Adventure for Anglers" depicting attractions in the French River area was added to the Departmental motion picture library during the year. Footage was also obtained for a film of the Canadian Lakehead and Nipigon regions, and for another dealing with the Lake of the Woods. Other photographic activity included the filming of scenes for a winter sports picture which will be released in the autumn of 1948.

A large display booth was prepared for the 1947 re-opening of the Canadian National Exhibition. It covered an area 135 feet in length and ten feet in depth, and featured panels illustrating the activities of the four travel branches of the Department, grouped about a central panel devoted to the importance of the Tourist Industry as a whole.

MARY AINSLIE,
Director, Publicity Branch.

REPORT OF THE INFORMATION BRANCH

The Information Branch of the Department has as its main functions:

(a) The supervision of the Ontario Tourist Reception Centres and the training of their staffs.

(b) The collection and dissemination of information relating to the tourist attractions, services and facilities of the Province. The distribution of departmental publications. Co-operation with regional organizations, transportation companies and resort proprietors in the distribution of their published material. Similar co-operation with the Canadian Travel Bureau, Ottawa, and the Travel Bureaux of the sister provinces.

(c) Handling the general correspondence of the Department, the greatest bulk of which is the direct mail enquiries of vacation-planners.

Tourist Reception Centres

During 1947 the number of Tourist Reception Centres in operation increased to twelve:—

Location	Date of Opening	Date of Closing	Supervisor	Number of Assistants
Kenora	Sept. 5	Oct. 31	Dennis Stone	2
Fort Frances	May 18	Oct. 31	G. Baird	2
Sault Ste. Marie	May 5	Oct. 15	Ivan Macdonald	3
Blue-Water Bridge (Pt. Edward)	May 1	Oct. 31	Ernest L. Hardy	4
Ambassador Bridge (Windsor)	June 15	Oct. 31	Robert L. Henry	4
Detroit-Windsor Tunnel	May 3	Oct. 31	Robert L. Henry	4
Fort Erie	Aug 25	Oct. 31	Walter Stratton	2
Rainbow Bridge (N. Falls)	June 14	Oct. 31	Douglas Allan	4
Whirlpool Bridge (N. Falls)	May 6	Sept. 19	Douglas Allan	2
Homer (Queen Eliz. Way)	June 9	Oct. 31	Douglas Allan	4
1000-Island Bridge (Lansdowne)	May 18	Oct. 15	R. J. Child	2
Prescott	May 19	Oct. 15	A. Pettem	2

An Information Desk is also maintained year-round in the Main Parliament Building and has continued popular with the many visitors who inspect the buildings and with our own citizens seeking vacation and travel information.

During the months of their operation 241,069 visitors called at the Reception Centres, almost twice the number received in 1946. The services rendered include information and advice on sight-seeing tours and vacation areas, provision of highway maps and other travel literature, marking of routes and advice and assistance in securing overnight or lengthier accommodation. 5816 local and 947 Long Distance telephone calls were made in connection with this last-named service.

There is ample evidence that the travelling public has appreciated the facilities offered by the Ontario Reception Centres and in their two seasons of operation they have provided the Department with a valuable means whereby the trends of the tourist movement and the tastes and ideas of our visitors can be quickly gauged.

The establishment of Tourist Reception Centres in 1946 was pursuant to a resolution passed at the Ontario Post-War Tourist Planning Conference convened by the Honourable Leslie M. Frost, K.C., April 14th and 15th, 1944.

The objective set forth in that resolution has already, it is considered, been nearly attained. In one or two cases premises require improvement, relocation, or enlargement. The building situation has delayed the establishment of a Centre at Pigeon River, but this should be completed early in 1948.

Discussions have been held with the Tourist Bureau of the Province of Quebec with a view to establishing a joint Centre near the Vaudreuil Bridge and it is hoped that this will eventuate.

Reception Centre Staffs throughout have demonstrated a very satisfactory degree of interest and enthusiasm for the work and desire to serve and please the travelling public. All male supervisors are ex-service men and 33% of the women receptionists ex-service women (1947). It is expected that a good measure of continuity of personnel will maintain from year to year. The total outdoor staff of 1947 reached the figure of 9 supervisors and 35 receptionists.

Distribution of Publications

The official Ontario Road Map produced annually by the Department of Highways is mainly distributed by the Information Branch of the Department of Travel and Publicity.

The 1947 edition was produced to the number of 380,000 copies. 70,338 of these were issued to individual travellers at the Reception Centres. A further 45,000 were mailed to individuals making enquiries by letter. 29,000 were distributed singly at the 8 Sportsmen's Shows in the U.S.A. and Canada in which the Department participated and 10,000 at the Canadian National Exhibition.

The distribution of the balance was effected through sub-outlets which are carefully chosen for their effectiveness. These include:—

In Canada:

Canadian Government Travel Bureau, Ottawa.
Travel Bureaux of Provinces.
Ontario Chambers of Commerce, etc.
Railway Agents.
Municipal Information Offices.
Certain gas-station chains, etc.

Abroad:

Embassies, Consulates, Trade Commissioners, etc.
Affiliates of the American Automobile Association.
Sportsmen's Clubs.
Railway Agents.
Public Libraries.
Ontario House, London, England.
Travel Agencies.
Chambers of Commerce.
Various Information Bureax, etc.

To both the above should be added the Vacation Bureaux which increasingly are being set up by newspapers, and also the Vacation Bureaux conducted by the larger industrial and commercial corporations for assistance to their employees. The benefit to health and morale of a satisfying vacation is recognized everywhere on this continent as a modern necessity.

The distribution of the Department's booklet and folder publications follows the same lines as that of the road maps. The greatest percentage of each finds its destination in the U.S.A. An increasing number of requests have been received during the year from officials, agencies and individuals in the United Kingdom and the other continents.

Other printed matter distributed by the Department includes:—

Publications of other Ontario Provincial Departments,

Publications of the Canadian Travel Bureau.

Those of the Travel Bureaux of the other Provinces by reciprocal arrangement.

Those of regional promotion organizations in Ontario.

Those of Ontario Resort operators.

Transportation schedules, etc.

Agencies of all kinds whose functions include vacation planning and travel promotion are so multiplying on this continent and abroad that it might be fairly said to be impossible to put a figure on the amount of promotion literature that *could* be distributed to meet all requests in full.

Correspondence and Enquiries

The volume of incoming direct mail handled during 1947 rose to 47,921 pieces, almost double the 1946 figure.

In addition, lists of enquiries from individuals planning Ontario vacations were received from:—

The Canadian Government Travel Bureau	5023
Various special advertising media	4538
Personal enquiries at Outdoor Shows	4596

Many of these received an individual letter reply, and all received appropriate printed matter. The regular mail enquiries originated as follows:—

Canada	18.8%
United States	78.7%
Other Countries	2.5%

Vacation-Planners' Enquiries

At intervals of a few days throughout the year the enquiries received by direct mail are surveyed and a selection made of those which refer to a specific vacation area, or which otherwise seem best to merit a vigorous follow-up.

These are listed with a brief summary of the nature of each enquiry and the lists mailed to some 70 of the Province's active tourist promotion organizations. Each local body thus has a constantly expanding mailing list of visitor prospects, and it is clear that in the past season good and effective use has been made of it.

Among the local bodies co-operating in this way might be named the following whose interest is, in most cases, in widespread districts:—

The Manitoulin Island Chamber of Commerce
The Chapleau Board of Trade
The Fort Frances Chamber of Commerce
The City & District of Sudbury Chamber of Commerce
The North Bay Board of Trade
The Dryden Chamber of Commerce
The Nipigon Junior Chamber of Commerce
The 1000-Island, St. Lawrence River and Rideau Lakes Association
The Muskoka Tourist Development Association

The Highland of Haliburton County Tourist Association
The Lake of the Woods Tourist Bureau
The Kawartha Lakes Tourist Association
The Prince Edward County Publicity Committee
The Blue Water Highway Association
The Toronto Convention and Tourist Association
The Ottawa Industrial and Publicity Committee
The Essex County Tourist Association
The Bruce Peninsula Resort Association
The Land O'Lakes Tourist, Resort Owners and Protective Assoc.
The Greater Niagara Chamber of Commerce
The Huronia Historic Sites and Tourist Association
The Algoma Travel Bureau
The Fort William Civic Tourist Bureau
The Port Arthur Chamber of Commerce
The Norfolk County Chamber of Commerce
The Northern Ontario Outfitters' Association
The Hotel Association of the Province of Ontario

Governmental measures towards a well-found and prosperous visitor industry can only succeed with the co-operation and support of such bodies as those listed above and this has always been generously forthcoming.

Where To Stay In Ontario

The 1947 edition of the Booklet "Where to Stay in Ontario" was the first effort yet made to produce a complete list of all the hotel, resort and cabin camp accommodation in the Province for the assistance of the travelling public. The work of assembling material for an amended and enlarged edition in 1948 has proceeded continuously.

Reports on Skiing Conditions

During the winter sports season, the weekly reports on skiing conditions collected by telegraph from ten organized ski districts have been consolidated and wired to leading broadcasting stations and newspaper sports editors within an appropriate radius. The week-end being the popular time for skiing, these wires have been despatched each Thursday afternoon, with a supplementary wire Friday covering any changes in snow conditions.

The increasing popularity of skiing has been very evident in Ontario during the past winter and it is considered that this wire service has assisted the cause, which is part of the over-all objective of a year-round tourist season.

Coming Events

In co-operation with the Publicity Branch an index of Coming Events in Ontario is maintained and the information supplied to the press and other agencies at short intervals.

Flying Facts About Ontario

The air information map and folder published in 1947 under this title was well received by owners of private aircraft and charter operators. Data has been assembled for a second edition in 1948.

Conventions

In cases where mailing lists of convention delegates have been available, they have been sent vacation literature in advance of the convention dates with the objective that they may extend their stay in the Province by visiting one or more of its many vacation areas.

C. D. CROWE,
Director, Information Branch.

REPORT OF DEVELOPMENT BRANCH

The principal activity of this Branch during 1947, was the conducting of a general survey of all tourist camps in Southern Ontario. For this purpose the Province was divided from East to West into six zones, with the railway line from Parry Sound via Scotia Junction, Barry's Bay and Killaloe to Pembroke, as the Northern Boundary. A staff of six inspectors was engaged for a period of fifteen weeks, commencing June 16th, the personnel being selected from among the students of the Course in Institutional Management at the University of Toronto. Each Inspector was assigned a zone and his duties included the listing of tourist camps, as to name, owner, location, accommodation, facilities, furnishings, supervision, appearance, and general condition. This information was carefully tabulated and enabled the Department to set up for the first time a roster of all tourist camps in the Province. The facts thus obtained were also made available to the Information and Publicity Branches for inclusion in the publication "Where to Stay in Ontario". During the course of this survey, inspectors travelled a distance of approximately 40,000 miles and visited more than three thousand camps.

With the coming into effect of the Regulations made pursuant to the Department of Travel and Publicity Act, 1946, and the Tourist Camp Regulation Act, 1946, a great many requests were received for assistance in planning and building tourist establishments which would comply with the provisions of the new Regulations. Most of these were handled by way of personal interview.

Complaints received by the Department were carefully investigated by the Development Branch. These numbered approximatly fifty, during the entire season, and every effort was made to secure redress for the complainants where such appeared to be warranted by the circumstances. The principal cause of dissatisfaction was to be found in the tendency on the part of a small group of cabin operators to take advantage of the heavy demand for accommodation, by overchanging their visitors. No prosecutions were necessary, however, in connection with misleading advertising, although a number of cases were reported to the Department. In each instance, satisfactory action was taken after the provisions of the Regulations were drawn to the attention of the offender.

The regulations which were made pursuant to the two above mentioned Acts, were published in booklet form and 8,000 copies were distributed to resort and tourist camp operators, municipal clerks, Chambers of Commerce, Boards of Trade, and tourist organizations throughout the Province.

A series of meetings with Chambers of Commerce, Boards of Trade and tourist associations was held during February and March. This was primarily for the purpose of explaining the provisions of the Regulations which became effective April 1st, 1948, and to clarify any points concerning which the operators or the municipal clerks (who are the principal license issuers) were in doubt. In addition, Departmental representatives attended meetings sponsored by municipal councils and local health units.

Co-operation was provided to the Lake Erie International Vacationland Conference in surveys conducted throughout the area covered by that organization. Departmental representatives attended two meetings held by the Conference and worked with officers of that organization in the encouragement of a higher standard of accommodation and facilities.

One particularly noteworthy aspect of tourist development in this Province, is that investors possessing a reasonable amount of capital are showing an interest in the development of the type of tourist accommodation known as "motels" or "motor courts". Several establishments of this type were opened during the past year and it is likely that these will be augmented during 1948 by the construction of additional units. A decided improvement has been noted in many long established camps. Running water, modern sanitary facilities, good beds and bedding, painting and decorating, renovated grounds and driveways, are becoming particularly noticeable. Further improvement can be expected with the easing of the supply situation. Arrangements were made during the year for the publication by the Department of a Resort Operators' Handbook which will be distributed to interested persons in the tourist industry. This was compiled and written by an experienced operator and will undoubtedly serve a useful purpose in raising the standards of resort operation generally.

MORGAN CARRY,
Director, Development Branch.

REPORT OF WINTER PROMOTION BRANCH

At various times during the year, both Winter and Summer, survey work was done at and near Fort William, Port Arthur, Nipigon, Kirkland Lake, North Bay, Sault Ste. Marie, Sudbury, Huntsville, Orangeville, Midland, Sundridge, Bobcaygeon, Dagmar, Bracebridge, Flesherton, Haliburton and Cobourg where skiing facilities to cater to winter tourists are being contemplated, installed or expanded.

During the latter part of the 1946-47 winter season a survey of tows, lifts and other facilities was made in the eastern part of Canada and the United States. This survey covered such places as Mont Tremblant and Ste. Adele in Quebec, Franconia and North Conway in New Hampshire, Pittsfield, Mass., and Stowe, Big Bromley and Pico Peak in Vermont. A book of pictures and pertinent information showing various types of successful installations was made. This book is being continued and expanded and is available to any person or any organization planning installations in Ontario.

A general survey has shown that there are nearly three hundred tows and lifts operating in the New England States every week-end and many operate throughout the week. This Winter, approximately 40 operated in Ontario. Average prices for meals and accommodation was higher in the other areas visited than in Ontario, but more and better facilities are provided. Snow conditions generally are better in Ontario than in the New England States, but the hills developed in Ontario run from an average of 200 to 500 vertical feet of drop, while the hills developed in the New England States run about an average of 600 vertical feet. Rates on rope tows are slightly higher in the Laurentians and United States points than in Ontario.

Ontario was on a par with the Laurentians in facilities for winter tourists in 1936, and ahead of the New England States. During the interval we have practically stood still compared with the investment of fifty to one hundred million dollars made in these other areas to cater to the winter tourists. Our ski instruction is as good as any to be found but where we number five registered ski schools operating to cater to the winter tourist there are at least sixty in the other areas. Ski equipment, including boots, ready for rental to tourists was to be found in nearly all areas visited, but is very scarce in Ontario. Whole villages and towns in the Laurentians and the New England States have become "ski conscious" and in one specific case, a town with a normal population of 2,000 can cater to 2,000 skiers. A corresponding case in Ontario where the skiing is as good or could be better, shows that the town in connection with the area can only cater to from 200 to a maximum of 500.

What The Winter Sportsman Expects

In nearly every case the winter tourist is now a skier and he expects uphill transportation, properly graded and open slopes, a first-class ski school, necessary first-aid equipment, if required, good accommodation adjacent to the slopes, if possible, proper transportation to the slopes, equipment that can be rented, a proper ski shop where repairs and adjustments can be made, a person properly trained to make such repairs and adjustments, a place for storing and waxing skis, entertainment in the evening, such as dances, pingpong tables, cards, darts and movies. These tourists expect that when they travel to any nearby village, town or city they will find shops that will cater to their requirements and clerks who will understand their requirements and discuss skiing and topics pertaining to skiing intelligently. We do not have hills as high and as long as those that are in use in the eastern part of the United States and in most places in the Laurentians, but we do have hills that are adequate for the average skier and his family. There are thousands of people living in the United States west of Rochester, New York, that are potential winter tourists in Ontario. People living east of this point in most cases have to pass better skiing than we can offer in order to get here.

There is a decided interest in skiing in general in Ontario, and by resort owners and potential owners in catering to skiers. There is, however, an attitude prevailing among many resort operators that the winter season will only be something to fill in between two summer seasons and most resort operators do not yet realize that their business can cover a twelve-month period. Plans for new and expanded facilities and accommodation, in many cases after consultation with this Department, are moving toward completion. However, without this expansion program now being effected, weekly accommodation, where facilities in any way compare with these other areas, is available in the whole Province for not more than 500 tourists skiers per day. The Laurentians and New England States cater to as many as 25,000 weekly guests per day.

We have the snow, hills and scenery required to handle thousands of holiday seekers every day throughout the winter season, but the facilities must first be provided before we advertise to bring these people here.

Ski Instructors Schools

The Department aided in operating schools for ski instructors to build a group from which trained professionals can be drawn as required by our Tourist Skiing Areas. A second reason was to make good ski instruction available to all residents of the Province, so as to increase the number of skiers, proficiency of skiers and general interest in safe, controlled skiing. As our number of good and average skiers increases we shall find that our facilities to cater to them will also increase. As our facilities expand and improve they will in turn draw more tourist skiers to the Province. This year was the second season for the operation of the Canadian Travelling Ski Schools. The first of these Schools was held at Limberlost Lodge near Huntsville, from January 10th to 16th, inclusive, where six members of the staff of the Canadian Ski Instructors' Alliance assisted the manager, a member of the Departmental staff. Fifty-three skiers attended representing twenty-two localities.

At Fort William, the following week, twenty attended with two instructors and manager. The Schools this year were almost twice as large as last season. More potential professionals attended this year, and there are now several professional Ski Schools successfully operating in conjunction with ski resorts and areas throughout the Province. The marking was harder this year, to bring the standard up to the rest of Eastern Canada, and the standards in Eastern Canada are higher than any section of the United States. One instructor passed the final examinations of the three-year course at the Alliance School as a fully registered ski instructor. Nine have been added to the ranks of the assistant professional classification and thirty-two were passed or repassed as amateur instructors. New clubs were formed in some areas so they, as an organization, would be eligible to send representatives to our Ski Schools. The

Province of Manitoba has seen fit to follow the example set by Ontario and also operated a Ski School this season. This branch in Ontario did the organization work to help them get started.

Report System Established

Snow reports stating skiing conditions have been sent out every Thursday and Friday during the winter season. These reports are collected from appointed representatives of this Department and transmitted to this office with the co-operation of the C.N.R., C.P.R., and O.N.R. The representatives are either professional skiers or good amateur skiers who can give an accurate picture of the skiing conditions. All reports follow the same pattern; name of area, reported by, depth of snow on tow-hill and in bush, condition of snow on tow-hill, temperature, skiing conditions on tow-hill and in bush, and remarks. Eight standard words were used to describe snow conditions and five for skiing conditions. The Departmental snow report was as accurate as any to be found on the continent and covered all tourist skiing areas throughout the Province.

Places reporting for their area were Barrie, Cobourg, Collingwood, Dagmar, Fort William, Port Arthur, Haileybury, Huntsville, North Bay, Orangeville, Owen Sound, Peterborough, and Summit near Toronto. From these reports that were brought by wire and telephone to this Department, condensed reports were sent to newspapers, radio stations, travel bureaus, travel agencies and sporting goods establishments throughout Canada and the adjacent sections of the United States. They were used, quoting this Department as the official source, by most recipients to inform their readers, listeners and customers. All these, of course, are potential winter tourists that we may in time see on our slopes and in our lodges. Through these reports it is expected the season will be extended, as the best skiing of the year is often available after the Toronto area is clear of snow.

Tow Operation Improved

Through greater interest in skiing because it is a sport and recreation in which persons of all ages may participate, an interest accelerated by our Schools, the number of rope tows in the Province has jumped from twenty-five to approximately forty. Generally speaking, the operation of all tows has been better than in the past. Two modern stick lifts are contemplated at Haileybury and Kirkland Lake. The nature of the ground is such that rope tows are not advisable in Kirkland Lake and both of these lifts will be experiments by companies in Ontario that may in time consider erecting such lifts by contract. The Branch's book of information and pictures was a great help to the ski clubs considering these more expensive lifts. Of Ontario tourist skiing areas now operating, Collingwood would be the only section able to purchase, install and operate such a lift at a profit as the initial cost from the U.S. suppliers or their representatives is at least $20,000.00. However, as our numbers of skiers increase we will in turn be able to erect these more popular lifts as has been done in the other skiing sections of Eastern Canada and the United States.

Report Increase in Numbers

Charts were prepared showing Tourist Skiing Areas and contained pertinent information such as type of accommodation, number, rates, type of slopes, distance from accommodation, transportation available, tows available, length, vertical drop served, total vertical drop, rates for tows, instruction available, rate for instruction, type of transportation to the area, etcetera. This information is to be put into book form for next season and will replace the winter pamphlet now in circulation. Due to snow conditions, greater general interest in skiing and partly due to our information service the movement of tourist skiers has been greater this year than any other season.

Several articles pertaining to various aspects of skiing were written for magazines in Canada and the United States. In addition, many writers were aided in producing articles and folders. A great deal of lineage was given to department schools in magazines, newspapers and radio programmes. By helping writers and supplying releases and information to sporting editors, we have helped in creating a greater interest in skiing throughout the Province. There has been more lineage in Ontario papers this winter on various aspects of skiing than has ever appeared in the past.

C. H. MELVILLE,
Director, Winter Promotion Branch.

REPORT OF THE DIVISION OF PUBLIC INFORMATION

Pursuant to the recommendation of the Cabinet Committee on Advertising and Publicity, the Division of Public Information was established in July, 1947, under the direction of Hon. Arthur Welsh, Minister of Travel and Publicity. The recommendation of the Cabinet Committee on Publicity was "that the Department of Travel and Publicity establish a division (or branch) to discharge certain responsibilities under the name of the Bureau of Public Information or Public Information Division."

One of its first operations was to assist with the publicity of the arrival of the first plane under the air immigration plan in August. This entailed contacts with the local press, news services, radio stations, and assisting English and United States newsmen who were here for the first arrivals. As the air immigration plan continued, the Division was constantly in co-operation with the officials in charge in issuing information and data on the programme. Many requests of magazines for material on the programme were filled. As an instance, an Ottawa writer requested such information. He wrote an article on the programme which appeared in "Canada", published in London, England. While news on the programme has ceased to be front-page material, the Division continues publicizing its progress.

Publications

"Ontario Government Services"

This publication is designed to serve as a general information service to the public, members of the Legislature, newspapers, magazines, radio and urban news services, departments and boards and commissions on services provided by the Ontario Government. The first issue was on September 30th, with an initial distribution of 2,600. It is published and distributed by-monthly.

The reception accorded this publication from all sources has been favorable. Its circulation has been accordingly expanded to meet this response. The current distribution of the eighth issue is 70,000 copies. Mailing list includes daily and weekly newspapers, radio stations in Ontario, members of the Legislature, mayors and clerks of municipalities, wardens and reeves of counties and townships, school officials and teachers, doctors, dentists, lawyers, agriculture societies and officials, service clubs, advertising agencies, members of the clergy of all denominations, members of the Civil Service Association, etc.

In response to the initial announcement of the publication made by three Toronto radio news commentators and other announcements by press and radio, over 2,000 requests by mail and telephone were received for the publication. Many who have received it have commended the service to the public, declaring it fills a gap where nothing of this nature formerly had reached the general public. Many education officials have praised it, contending it serves a useful purpose in school curriculum, some urging that it be in every school library. Some teachers declared it was being used in teaching of civics. Again, in the courses in journalism and authorship at the University of Toronto Extension, Mr. John E. Elson, one of the lecturers, submitted the publication to the class as a fine example of public relations development.

It has also been found that the publication serves as an informative media for general use in such as reference libraries, service organizations, industrial and business associations and firms. It has also served as a "lead" to articles for the daily press. As an instance, the first feature article in the first issue based on the V.K. Greer Memorial School at Utterson, drew wide attention. Two Toronto newspapers asked and were given our pictures, showing this new model rural school. Several education publications used our pictures and engravings as well as our article in full.

The additional use of this material provided wider information to the public in this important phase of government policy. Again, an article on the new Provincial Police radio communication system was noticed by several daily and weekly newspapers and publications. They asked for and were given pictures and data. Another instance was a two-article series on the Ontario Research Foundation carried by this publication. Later the Toronto Evening Telegram asked for copies of our articles, placed a special writer on this important subject and published a series of four articles. Radio news commentators have used much material from this publication, and news services such as Canadian Press and British United Press have readily accepted news from it for relay to their clients, the daily newspapers of Ontario.

There have also been several editorials published commending the publication, one weekly declaring it answers a request of the weekly editors who had urged such a publication on previous occasions. There has also been response from outside the Province, indicating the need for such a publication. This phase of the publication is cited to illustrate that, while the regular news-gathering channels operate to assemble and disseminate immediate news, yet there is much material on government services which in the past has not been fully presentd but which is worthy of such presentation, in the interest of a well-informed public. The publication was also welcomed at Ontario House, London, England, where the material it contains was found of wide use. The Provincial Savings Offices located in 22 cities reported an immediate response to copies placed in their offices for public access.

Some comments are:

An insurance official: "Having had some experience in the handling of goodwill material, I would like to compliment whoever looked after this job for the Government."

A barrister: "I have read with interest "Ontario Government Services."

A barrister: "Would you be good enough to let me have additional copies?"

A school principal: "After looking over a copy I would suggest that it is sufficiently instructive and interesting to be placed in the reading room of all our high schools."

A clergyman: "This means a better acquaintance with the very big business of government may be acquired. I felt the need of this as a citizen and in my work as a minister of the gospel."

Another clergyman: "May I express my appreciation for your fine publication which contains so much helpful and valuable news."

Office and Publications Directory

This Division has issued a Directory of Ontario Government Departments, Legislative members, Boards of Commissions and publications.

Material for this publication was gathered with co-operation of all departments. It answers many public requests for a composite directory setting forth all departments, key officials, telephone locals, to aid in facilitating the public who visit the Parliament Buildings in locating these offices on the many floors and corridors. The presentation of all government publications answers many requests for material in "what publications are issued by the government?" No such publication has been available and it provides a means for those seeking government publications from several departments to obtain them from this central office without having the inquiry passed to each department concerned.

Central Information and Publication Branch

Work is progressing in establishing two information and publication distribution booths, in the corridor inside the Main Building, Parliament Buildings. One booth is designed for travel information and the other general information and publications. All government publications other than those for which a charge is made will be available to public demand at these booths to facilitate the public. The new stand will enable the public distribution of all publications, which total nearly 500, without the applicant having to visit several departments. Information guides will be available to aid visitors, but inquiries of a specific nature will be referred to the Department concerned.

Advertising Accounts

Under a direction made by the Cabinet Committee on Advertising and Publicity, advertising accounts of all departments were directed to be approved by the Minister of Travel and Publicity and the Division of Public Information. This procedure has resulted in removal of some duplication and unessential placing of advertising effecting considerable saving. It has also assisted the departments in their advertising plans particularly where more than one department is to be identified or included in the subject matter in the advertising. In the past, it has been possible for some publications to receive two and sometimes three advertisements from different departments, when the value of one—not to mention three—advertisements is questionable. A general policy has been in operation under which an advertisement from one department adequately covers the necessity for one publication. Where more than one department should be included in a specific publication, the departments are consulted on preparing a composite advertisement, thus giving a wider coverage of government services, and permitting those departments that should present a message in some class or specialty publication the opportunity to present that message. To a degree, the Director is thus able to co-ordinate part of the advertising programmes without undue restriction on any department. It should be realized that advertising solicitors in their routine business solicitation contact many of the departments and without this co-ordination the situation results in increased business for the publisher but inadvisable distribution of advertising.

The Division has prepared several over-all or composite advertisements on government services. These include advertisements for the Financial Post special report on Ontario and the Monetary Times "Report on Ontario." These advertisements reviewed in the former, all government departments with up-to-date data, and the latter gave a composite review of Ontario Government and the Province's resources, and development.

The Division was called to assist departments in several instances where advertising was to be arranged. In one instance, assistance was asked by Hon. L. M. Frost, Provincial Treasurer, and Minister of Mines, in connection with an emergency programme of advertising and radio spot announcements for an appeal in saving gas in the Southwestern Ontario area. Within a few hours, the Division was able to place directly with daily and weekly newspapers advertisements on this appeal and also arranged for radio announcements. Delay in having this appeal before the public might have had detrimental results.

Radio Addresses and Advertising

The Division has directed several programmes where time for a broadcast was requested from the Canadian Broadcasting Corporation for delivery of a message of "public importance." In these cases, negotiations were made with CBC, and arrangements made for the advertising of the broadcast usually through agencies in the daily and weekly press.

Press Releases

Many press releases from several of the departments have been handled through this division, in cases where the department prepares their release, and asks for assistance in distribution, to daily and weekly newspapers, press services, certain news publications and radio stations. It should be noted that the number of outlets for this material has expanded in recent years.

Pictures and Photographic Bureau

Constant requests are made for timely and topical pictures of all branches of goverment activity. The present supply in nearly all departments is both limited and in some cases out of date. Industrial pictures, showing Ontario's vast and diversified industry are needed. Pictures showing Ontario's agricultural industry are also out-dated. A survey reveals that a directed plan might result in supplies of news worthy pictures showing seasonal activities of the agricultural industry, etc.

A central photographic bureau appears essential to carry out such a programme in conjunction with the departments concerned. The pictures might be taken under direction of the department concerned for planned "news value," thus making valuable pictures available, not only for our own use in publications, but for public distribution. Recently a request was made by a responsible publication for pictures of Toronto. While this may not be primarily a responsibility of the Province, yet none are available. A member of the Ontario House staff, London, England, recently reported he had seen pictures of Toronto and Ontario in a British publication which had been taken thirty years ago. Ontario House is a good outlet for distribution of all types of Ontario pictures.

Advisory Committee on Public Information

This committee under the chairmanship of Hon. Arthur Welsh, Minister of Travel and Publicity, and co-chairman Hon. D. R. Michener, Provincial Secretary and Registrar, has held several meetings. It is composed of officials of all departments, including all departmental public relations and publicity officials.

The meetings have endeavoured to create a clear understanding of the duties of the Division in relation to operations of the Departmental set-ups on public relations, and the fact that the Division is designed to provide over-all coverage, where possible, and co-operation with all departmental activities. It has resulted in the departments, in most cases, co-operating with the Division and vice versa, in matters of advertising, etc. But it should be pointed out that, if desirable under defined policy, the matter of placing of advertising to effect complete co-ordination should be subject to deliberation and recommendation of the Advisory Committee. This procedure could result in a planned yearly programme on general advertising. In the matter of small or goodwill advertising, a specialty publication might be used with greater value by a department concerned with the definite publication and its subject. At present, some departments advertise in publications which have no relation to the department's services.

Contacts With Writers, Newsman, Advertising Salesmen and Special Writing

The Division had constant and numerous requests from newsmen from outside Ontario, including England, Europe and the United States, for assistance on material based on the Province. The Department of External Affairs, Ottawa, has directed to this office writers from England and Europe. Each request has been dealt with in relation to the department concerned. In the majority they ask help on obtaining information on the over-all or composite picture of the Province, including information on industry, agriculture, travel, timber interviews with ministers and facts on other government fields of services. Journalists and writers from England and Europe have been assisted, many requestion help in visiting the Canadian National Exhibition and other places of interest. Others wish to make proper contact with government officials. The Division has thus provided a central pool where such assistance can be offered.

Others asking assistance in obtaining copies of addresses and press statements usually contact this office. Representatives of "Time" and other publications ask and are offered every assistance.

Requests for advertising from various publications have also been dealt with under supervision of the Minister, and in which departments concerned are consulted, thus providing a co-ordination on advertising.

Messages of welcome for certain publications have been prepared by the Division. In some cases, articles have been prepared for specialty publications on specific subjects, such as travel, industry, mines, timber. At the same time, where a publicist exists in the department concerned, they are asked for assistance in this regard.

Motion Pictures

There are several news-reel film firms anxious to obtain topical pictures of government services. It would appear the presentation through the news-reels serves as one of the several media by which the public is informed. Consequently, these firms welcome co-operation in being told of timely events for recording.

In several instances, the Division co-operated in this manner, in conjunction, at times, with the Motion Picture Bureau and Censor Board. As an example, the Prime Minister was in England in the spring of 1947. His arrival warranted a recording. The Associated Screen News was informed of the time of his arrival by airplane at Dorval Airport, and willingly arranged to have a sound truck sent to the airport. While the hour of the plane's arrival was late in the day and unfavorable to the taking of a film, yet the arrival was recorded, and presented in the news-reel within twenty-four hours.

In connection with the many films taken for the various departments of government services, for use in travel advertising, mines, timber etc., it might be observed that these films could be co-ordinated into one general film depicting "Ontario Today." This would require co-operation by all the departments concerned, so that sections from all films might be used in the composite story-picture, with a commentary. Again, the central distribution, in conjunction with the departments, might be considered, from the policy of having all motion pictures available from a central bureau. Through such a bureau a policy could be defined in having a regular presentation of all these films, whether through service clubs, churches, businesses, etc. It might be that these departmental films would be of much interest to the general public providing they were properly publicized with showings — without charge — at various places on regular schedule throughout the Province.

G. W. HOGARTH,
Director, Division of Public Information.

APPENDIX "A"

* FOREIGN MOTOR VEHICLES ENTERING ONTARIO 1937-47

Travellers Vehicle Permits, excluding Local Traffic

Note—Travellers Vehicle Permits are issued to all non-commercial vehicles which —

1. Travel beyond the jurisdiction of the port of entry, or
2. Remain in Canada more than 48 hours, or
3. Leave the country by another port than the one by which they entered.

	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947
January	14,935	16,033	12,618	11,018	10,949	11,784	3,684	7,960	5,819	15,190	12,953
February	14,840	14,027	10,891	12,750	10,496	10,162	4,334	6,061	7,524	16,048	11,904
March	21,772	18,091	16,145	17,670	17,308	14,113	5,125	6,622	14,028	27,682	15,724
April	27,155	32,265	31,109	26,396	35,211	24,612	8,477	11,207	19,317	39,309	31,355
May	66,129	58,898	60,368	52,404	66,766	38,575	12,408	20,253	30,195	65,578	69,044
June	81,690	73,253	87,691	80,075	84,740	40,477	14,412	27,771	51,350	112,688	125,324
July	187,132	160,268	177,577	91,492	164,190	60,650	34,521	63,373	105,844	187,783	227,395
August	193,450	172,417	183,026	133,602	188,808	57,041	41,554	60,125	128,862	211,280	264,079
September	120,387	105,233	105,491	74,043	76,837	33,913	29,908	40,765	92,511	108,765	119,889
October	51,335	49,887	43,043	41,352	47,152	17,556	16,549	21,846	50,019	61,652	73,549
November	31,528	28,550	27,739	23,785	33,078	12,429	9,988	15,879	30,866	36,191	35,675
December	17,869	25,664	23,604	17,392	22,414	7,273	9,175	10,775	17,385	20,930	18,303
Total	828,222	754,568	779,302	581,979	757,949	328,585	190,135	292,637	553,720	903,096	1,005,194

* Source — Dominion Bureau of Statistics.

APPENDIX "B"

* FOREIGN TRAVEL INTO ONTARIO, 1938-47

Classified according to number of persons and means of travel.

Year	By Rail †	By Bus †	By Boat	By Aeroplane
1938	569,010	N.A.	54,516	N.A.
1939	569,628	N.A.	68,851	N.A.
1940	552,806	N.A.	49,244	N.A.
1941	614,235	162,825	75,134	7,532
1942	916,465	120,651	52,820	4,592
1943	1,422,685	112,245	89,123	5,580
1944	1,634,791	151,197	93,772	6,766
1945	1,594,040	196,616	134,676	9,628
1946	1,272,598	308,813	129,068	29,049
1947	1,112,846	352,538	162,423	32,414

* Source — Dominion Bureau of Statistics.

† Includes intransit traffic through Southern Ontario.

APPENDIX "C"

RECEPTION CENTRE SUMMARY FOR 1947

	KENORA	FORT FRANCES	SAULT STE. MARIE	POINT EDWARD	WINDSOR		FORT ERIE	HOMER	NIAGARA WHIRL-POOL	FALLS RAINBOW	IVY LEA	PRESCOTT	TOTAL
					BRIDGE	TUNNEL							
Opening Date	Sept. 5	May 18	May 5	May 1	June 15	May 3	Aug. 25	June 9	May 6	June 14	May 18	May 19	
Closing Date	Oct. 31	Oct. 31	Oct. 15	Oct. 31	Oct. 31	Oct. 31	Oct. 31	Oct. 31	Sept. 19	Oct. 31	Oct. 15	Oct. 15	
Total Visitors to Centre	348	16,796	28,254	44,524	18,918	20,298	8,989	53,382	4,381	25,227	9,828	10,124	241,069
Nos. Represented on Register	272	14,397	16,998	36,426	15,545	16,038	5,978	18,525	1,706	17,372	6,871	4,365	154,493
Nos. on First Visit to Canada	36	5,312	4,002	2,272	1,381	2,472	140	2,470	169	1,242	765	950	21,211
Numbers Staying:													
1-7 Days	236	10,423	17,084	28,128	11,965	11,038	4,685	16,093	1,580	14,376	5,294	2,916	123,818
8-15 Days	42	2,902	5,524	5,319	1,604	1,364	974	2,398	358	1,510	710	722	23,427
Over 1 Month	2	1,189	789	1,929	312	379	87	206	20	158	60	137	5,268
Unstated	68	1,469	2,239	1,360	368	438	203	21,622	1,933	7,431	3,764	5,607	46,502
Destination:													
Northwestern Ontario	245	12,351	404	227	33	45	9	20	6	42	10	55	13,447
Northern Ontario	4	80	16,911	2,079	341	636	511	2,194	242	450	249	256	23,953
Central Ontario	2	4	2,006	5,397	392	532	684	2,227	394	641	437	580	13,296
Eastern Ontario	5	16	959	1,809	304	101	452	2,807	346	1,389	5,437	2,316	15,941
Western Ontario	37	39	2,549	20,573	11,952	12,092	3,399	8,677	901	6,665	1,252	1,431	69,567
Quebec and Eastward	4	18	1,535	3,254	1,370	1,330	347	2,399	158	2,253	1,328	1,257	15,253
Manitoba and Westward	13	1,879	281	267	132	207	122	122	132	457	11	31	3,654
Unstated	Nil	1,322	1,140	1,647	334	401	379	12,373	1,688	11,711	1,016	3,013	35,024
No Definite Destination	38	1,354	895	1,073	56	82	11	18,464	129	1,319	632	1,045	25,098
Road Maps Issued	141	5,991	6,729	21,151	6,546	8,105	2,966	6,988	1,333	5,307	2,766	2,315	70,338
Telephone Calls Made:													
Local	6	1,531	436	333	731	1.107	Nil	95	188	1,210	51	128	5,816
Long Distance	Nil	3	249	75	4	109	9	125	47	168	81	77	947

APPENDIX "D"

* FOREIGN MOTOR VEHICLES ENTERING ONTARIO, 1946-47

According to Ports of Entry

	Non-Permit Class Local Traffic		Travellers Vehicle Permits	
	1946	1947	1946	1947
Brockville	2,657	2,823	3,193	3,726
Cobourg			312	334
Cornwall	27,135	27,905	8,445	10,332
Courtright	4,122	4,393	1,290	1,338
Fort Erie	793,769	917,518	193,753	218,852
Fort Frances	46,865	45,829	17,201	20,523
Fort William			5	12
Gananoque				
Kingston			230	428
Kingsville	1		313	258
Lansdowne	5,013	5,802	70,166	82,722
Leamington	1		203	194
Midland			5	10
Morrisburg	1,267	741	1,809	1,482
Niagara Falls	338,206	455,729	206,188	229,807
Pigeon River	8,452	8,023	12,990	18,717
Port Arthur			191	273
Port Lambton	6,717	6,698	2,007	2,191
Prescott	7,772	8,152	8,756	10,035
Rainy River	696	872	1,282	1,418
Sarnia	79,196	97,779	85,015	101,690
Sault Ste. Marie	27,701	29,461	24,324	27,467
Sombra	4,015	4,616	1,038	1,101
Toronto			200	2
Walpole Island	2,614	3,579	701	803
West Dock	22	1	194	46
Windsor	1,268,628	1,347,170	263,285	270,098
Totals	2,624,849	2,967,148	903,096	1,005,194

* Source — Dominion Bureau of Statistics.

APPENDIX "E"

* FLOW OF U.S. MOTOR TRAFFIC INTO CANADA, 1945-47

Based upon Province in which Travellers Vehicle Permits were Issued.

	No. T.V.P.'s 1945	Pct. of Total T.V.P.'s 1945	No. T.V.P.'s 1946	Pct. of Total T.V.P.'s 1946	No. T.V.P.'s 1947	Pct. of Total T.V.P.'s 1947
Maritimes	44,377	5.2	83,147	5.6	93,417	5.1
Quebec	138,215	16.1	277,641	18.6	300,914	18.2
Ontario	553,720	64.4	903,096	60.5	1,005,194	60.5
Manitoba	8,775	1.0	22,797	1.5	24,407	1.6
Saskatchewan	4,247	0.5	9,723	0.7	9,702	0.6
Alberta	3,045	0.3	16,522	1.1	23,476	1.5
British Columbia and Yukon	107,536	12.5	179,180	12.0	206,743	12.5
Totals	859,915	100.0	1,492,106	100.0	1,663,853	100.0

* Source — Dominion Bureau of Statistics.

FIRST REPORT

OF THE

LIQUOR LICENCE BOARD

OF

ONTARIO

From January 1st, 1947 to March 31st, 1947

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 52, 1948

ONTARIO

TORONTO
Printed and Published by Baptist Johnston, Printer to the King's Most Excellent Majesty
1948

Toronto 2, Ontario,
April 14th, 1948.

TO HIS HONOUR,
THE LIEUTENANT-GOVERNOR IN COUNCIL

The undersigned has the honour to transmit the First Report of the Liquor Licence Board of Ontario for the period January 1st, 1947 to March 31st, 1947.

Respectfully submitted,

(Signed) L. E. BLACKWELL,
Attorney-General.

The Liquor Licence Board
of Ontario

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454 University Avenue,
Toronto 2, Ontario,
April 12th, 1948.

TO: THE HONOURABLE LESLIE E. BLACKWELL, K.C.,
Attorney-General of Ontario,
Parliament Buildings, Toronto 5, Ontario.

Sir,—

This is the First Report of The Liquor Licence Board of Ontario and covers a period of three months only—January 1st, 1947, to March 31st, 1947.

The Liquor Licence Act, 1946, became effective on January 1st, 1947, replacing The Liquor Authority Control Act. The Liquor Licence Act was designed to improve conditions which surround the sale and consumption of liquor and make possible the enforcement of laws and regulations as therein set out. After the introduction of The Liquor Licence Act, 1946, in the Legislature, it became necessary for the Board to reclassify the 1,241 hotels in the Province. The Board examined in detail the files relative to each of these establishments and its time was occupied in this task over a period of many weeks. When this work was completed there were the following classes of establishments:

718	Hotels
79	Taverns
444	Public Houses

Of the 718 hotels, the owners of 174 of these were required to bring their establishments up to the standard set by the Board, failing which the classification would be changed to that of a tavern or public house. The Board classed a hotel as one which provided for the public all essential hotel services inclusive of good room accommodation and dining room facilities—good food to the public at reasonable hours.

To qualify as a tavern, an establishment was required to have separate parts thereof provided with special accommodation, facilities and equipment to qualify a licencee for at least two of the following licences, namely:

(1) Dining Lounge
(2) Dining Room
(3) Lounge
(4) Public House

The public house was primarily the establishment which purveyed beer, with the privilege of renting rooms only by the week.

In reaching its conclusions as to classification of the various establishments, the Board was guided to a large extent by evidence of the services that each establishment had been providing. Many establishments were classed as Public Houses because the record of these indicated little, if any, attempt to afford accommodation or meals to the travelling public. Opportunity has been extended to those classed as Taverns to apply for hotel classification, while Public Houses have been afforded the chance of applying for classification as a "tavern" or "hotel". Some of the 79 taverns have been later classed as hotels, while quite a few of the 444 public houses have been reclassified as hotels or taverns. In the case of the latter, many owners of the same have expended considerable sums of money to improve their establishment.

Changes in classification during this three months' period are as follows:

2 hotels were made public houses
8 taverns were made hotels
1 tavern was made a public house
12 public houses were made taverns
23 public houses were made hotels

The members of the Liquor Authority Control Board were continued under the Liquor Licence Board and were: Judge W. T. Robb, Chairman; William T. Nugent, Vice-Chairman; and John Franklin White.

The Licensing Districts throughout the Province numbered fourteen made up as follows:

District Number	Comprising	District Centre
1	Counties of Elgin (except Vienna), Essex, Kent and Lambton	WINDSOR
2	Counties of Bruce, Grey, Huron, Perth, Waterloo and Wellington	KITCHENER
3	Counties of Middlesex and Oxford	LONDON
4	Counties of Brant, Haldimand, Lincoln, Norfolk and Welland (and Vienna only in Elgin County)	ST. CATHARINES
5	Counties of Wentworth and Halton	HAMILTON
6	County of York	TORONTO
7	Counties of Durham, Ontario, Peterborough, Victoria and District of Haliburton	PETERBOROUGH
8	Counties of Dufferin, Peel, Simcoe and Districts of Muskoka and Parry Sound	BARRIE
9	Counties of Hastings, Lennox, Northumberland and Prince Edward	BELLEVILLE
10	Counties of Addington, Dundas, Frontenac, Glengarry, Grenville, Leeds and Stormont	BROCKVILLE
11	Counties of Carleton, Lanark, Prescott, Renfrew and Russell	OTTAWA
12	Districts of Kenora, Rainy River and Thunder Bay	FORT WILLIAM
13	Districts of Algoma, Manitoulin and Sudbury	SAULT STE. MARIE
14	Districts of Cochrane, Nipissing and Temiskaming	KIRKLAND LAKE

During the aforesaid three months' period the Board held the following meetings:

Annual Meetings—at District Centres	1
Special Meetings—at District Centres	5
Special Meetings—at Head Office, Toronto	14

The Board finds different conditions existent in different parts of the Province. In Northern Ontario—principally in Districts Nos. 12, 13 and 14—there is a consistent and increasing demand for the establishment of more licensed premises to accommodate the growing portions of this part of the Province.

The Board now employs 30 Inspectors, which includes six new Inspectors placed on the staff for the purpose of assisting in the administration of The Liquor Licence Act, whose duties include periodical visits to each establishment as well as unscheduled visits to the same. Assistants to the Chief Inspector are constantly visiting licensed premises throughout the Province. Each Inspector makes a monthly report on each licensed premises in his district; he also makes special reports as and when required to do so, or when the circumstances are of sufficient importance to merit same. All Inspectors check for adherence to the regulations on the part of the licencee and particular attention is directed to the law respecting the serving of liquor to minors or intoxicated or apparently intoxicated persons. Cleanliness of licensed premises is a requisite on the part of every licencee—this includes the proper sterilization of glasses used in consumption of liquor. The inspection department also checks on fire prevention and gives particular attention to the fire escapes with which each licensed premises must be equipped.

In accordance with The Liquor Licence Act, agreements have been entered into between the Liquor Licence Board and nearly every municipality in the Province, in which any licensed premises are situated, whereby the police of the municipality agree to enforce The Liquor Licence Act and the regulations pertaining thereto. Where no police force exists in any municipality, such enforcement is the duty of the Ontario Provincial Police.

There were in all fifteen (15) suspensions of licence privileges during this period for reasons as follows, and the licencees were given an opportunity of appearing before the Board to explain the circumstances which brought about the suspension:

Use of dining rooms as beverage rooms	4
Non-compliance with various instructions issued by Board	5
Convictions for infractions of L.L.A. and L.C.A.	3
Non-observance of regulation hours of sale and permitting minors on premises	1
Unsatisfactory conduct of licence holder	2

The Liquor Licence Act empowered the Board to issue Banquet or Entertainment Permits for serving of liquor on designated premises for special occasions. In the short time in which the Act has been in force quite a number of such permits have been issued. Owners of premises where such banquets are held are particularly pleased with this provision of the Act. Formerly liquor was often served in places and on occasions, the legality of which might be questioned. Applicants for such permits make a written application on a form prescribed by the Board and indicate the type and quantity of liquor requested. The applicant must swear to the correctness of the information set out in his application. The Board, if it decides so to do, issues a permit to the applicant permitting the serving of the quantity of liquor allotted on a day and during the hours set out in such permit. Copies of this permit are furnished to the operator of the building where the banquet or entertainment is held, and to the police.

Reports from licencees and inspectors are indicative of the fact that many licencees, since the Liquor Authority Control Board was formed in October, 1944, have spent and are continuing to spend large sums of money to improve or add to their premises. In many cases such expenditures run into the thousands and tens of thousands of dollars. Improvement in the physical condition of buildings has been accompanied by similar improvement in management. The Board passes upon applicants who are suggested as managers of establishments and sets a standard that does not permit of every individual who applies being accepted. It may be of public interest that the University of Toronto now teaches Institutional Management. This is a two-year course and it is expected that quite a number of those who will be graduated with the first class in 1947 will become managers of some of the premises licensed by the Liquor Licence Board. The first graduating class will be composed principally of veterans of the recent world war.

On March 31st, 1947, there were in existence 1,656 licensed establishments (of which 30 operated under summer licences) made up as follows:

747	Hotels (See Schedule I)
82	Taverns (See Schedule II)
410	Public Houses (See Schedule III)
148	Social Clubs (See Schedule IV)
142	Veterans' and Labour Clubs (See Schedule V)
119	Military Messes (See Schedule VI)
8	Steamships (See Schedule VII)
1,656	

All the licensed establishments were renewed for the year 1947-48 with the exception of the Vendome Public House, 844 Somerset Street West, Ottawa, registered in the name of George R. Kingsbury, which was withheld pending construction of a new building at 899 Somerset Street West.

The Piccadilly Public House, Toronto, was voluntarily closed and the licences cancelled as of January 10th, 1947.

One new Veteran's Club was licensed and the name is included in Schedule V and designated as (new).

The Miner's Home Public House, Cobalt, was destroyed by fire on February 24th, 1947, and the licences taken out of operation pending construction of a new building. Cause of fire was unknown but it was believed to have broken out in the walls of a bathroom on the second floor. All occupants escaped from the burning building without loss of life or injury.

Schedule VIII sets forth detailed statement of establishments transferred.

Schedule IX is a list of establishments where licences were suspended.

Schedule X gives a detailed statement of the Board's expenses as of March 31st, 1947.

For the three months' period under review, ending March 31st, 1947, the sum of $207,126.51 was collected in transfer fees. (Since the amount similarly collected by the Liquor Authority Control Board for the nine months' period ending December 31st, 1946, was $702,574.13, it will be seen that for the fiscal year ending March 31st, 1947, a grand total of $909,700.64 was collected in transfer fees.)

Continued co-operation of Municipal and Provincial police will, it is hoped, provide better enforcement of the Act and the regulations.

The staff of the Board is efficient and courteous. A great deal of credit is due the staff as it labours under difficult conditions because of inadequate office space. Several of the employees work overtime on numerous occasions in order that the functions of the Board may be properly carried out.

Respectfully submitted,

By: W. T. ROBB,
Chairman.

KEY TO THE TYPES OF LICENCES LISTED HEREIN

"D.R." — "Dining Room Licence" for the sale and consumption of beer and wine with meals.

"P.H. (M)" — "Public House Licence" for the sale and consumption of beer in premises to which men only are admitted.

"P.H. (W)" — "Public House Licence" for the sale and consumption of beer in premises to which women only are admitted.

"P.H. (M&W)" — "Public House Licence" for the sale and consumption of beer in premises to which men and women are admitted.

SCHEDULE No. I

HOTELS

Municipality	Name of Establishment	Name of Owner	Type of Licences
ACTON	Dominion Hotel	Royston, Mrs. M. A.	D.R. P.H. (M&W) P.H. (M)
"	Station Hotel	Lasby, S. M.	D.R. P.H. (M&W) P.H. (M)
ALEXANDRIA	Alexandria Hotel	MacLachlan, J. A.	P.H. (M)
"	Ottawa Hotel	Rouleau, E.	D.R. P.H. (M)
ALFRED	Ontario Hotel Main Street	LaFleur, E.	D.R. P.H. (M&W) P.H. (M)
"	Prescott Hotel	Houle, L.	D.R. P.H. (M&W) P.H. (M)
"	Regal Hotel	Lanthier, B. and Seguin, G.	D.R. P.H. (M&W) P.H. (M)
ALGOMA MILLS	Algoma Inn (Summer)	Hoeberg, Mrs. M.	D.R. P.H. (M&W) P.H. (M)
ALMONTE	Almonte Hotel Bridge Street	Whitten, A. H.	D.R. P.H. (M&W) P.H. (M)
ALVINSTON	Columbia Hotel River Street	Betik, A.	D.R. P.H. (M&W) P.H. (M)
"	Grand Central Hotel River and Railroad Streets	Simpson, S. S. and Munro, J. D.	D.R. P.H. (M&W) P.H. (M)
AMHERSTBURG	Amherst Hotel Richmond Street	Fleming, C. W.	D.R. P.H. (M&W) P.H. (M)
"	Lakeview Hotel 23 Dalhousie Street	Ljiljak, J. and Ostoich, E.	D.R. P.H. (M&W) P.H. (M)
ANSONVILLE	Anson Hotel 65 Main Street	Lauzon, Louis	D.R. P.H. (M&W) P.H. (M)
ARMSTRONG	King George Hotel	Lindholm, Mrs. H. D.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
ARNPRIOR	Central Hotel 69 Madawaska Street	Bedore, Mrs. C.	D.R. P.H. (M&W) P.H. (M)
"	New Byrne Hotel 197 John Street	Byrne, J. R.	D.R. P.H. (M)
ARTHUR	Commercial Hotel George Street	West, W. L. and Bolen, W. R.	D.R. P.H. (M&W) P.H. (M)
ASTORVILLE	Rochefort Hotel	Rochefort, H.	D.R. P.H. (M&W) P.H. (M)
ATHERLEY	Atherley Arms Hotel	Atherley Arms Limited	P.H. (M&W) P.H. (M)
"	Lakeview Hotel	Atkinson, F. M.	D.R. P.H. (M&W) P.H. (M)
ATIKOKAN	Atikokan Hotel	Shelepiuk, Mrs. E.	D.R. P.H. (M&W) P.H. (M)
AYLMER	Central Hotel	Brooks, C. A. and Lamb, C.	D.R. P.H. (M&W) P.H. (M)
AYR	Queen's Hotel Swan Street	Siemieniuk, O.	D.R. P.H. (M&W) P.H. (M)
AYTON	Commercial Hotel	Doersam, P. F.	D.R. P.H. (M&W) P.H. (M)
BADEN	Baden Hotel	Zimmerman, G. T.	D.R. P.H. (M&W) P.H. (M)
"	Maple Leaf Hotel	Habel, C.	D.R. P.H. (M&W) P.H. (M)
BALA	New Windsor Hotel	Frew, T. and M.	P.H. (M&W) P.H. (M) D.R.
"	Balabay Lodge (Summer)	Davey, C.	P.H. (M&W) P.H. (M)
BARRIE	American Hotel 74 Collier Street	Soyko, W. and Shewschuk, M.	D.R. P.H. (M&W) P.H. (M)
"	Clarkson Hotel 130 Dunlop Street	White, F. and McElroy, J. E.	D.R. P.H. (M&W) P.H. (M)
"	Clifton Hotel 257 Bradford Street	Kerrigan, S. C.	D.R. P.H. (M&W) P.H. (M)
"	Queen's Hotel 94 Dunlop Street	Cween's Hotel (Barrie) Ltd.	D.R. P.H. (M&W) P.H. (M)
"	Simcoe Hotel Five Points	Cohen, M. and Dollinger, S.	D.R. P.H. (M&W) P.H. (M)
"	Wellington Hotel 4 Elizabeth Street	Wellington Hotel (Barrie) Ltd.	D.R. P.H. (M&W) P.H. (M)
BARRY'S BAY	Balmoral Hotel	Estate of J. B. Billings	D.R. P.H. (M)
BARWICK	Barwick Hotel	McGauley, R. H. and Gallo, S.	D.R. P.H. (M&W) P.H. (M)
BATCHEWANA BAY	Batchewana Hotel	Parr, James T.	D.R. P.H. (M&W) P.H. (M)
BEARDMORE	Alexander Hotel	Erechook, L. W. and N. J.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
BEARDMORE	Beardmore Hotel	Beardmore Hotel Co., Ltd.	D.R. P.H. (M&W) P.H. (M)
Beaumaris	Roseneath Manor (Summer)	Boyd, I. S. and Estate of F. T. W. Ford	D.R. P.H. (M&W) P.H. (M)
BEETON	Beetonia Hotel	Boake, R. H.	D.R. P.H. (M&W) P.H. (M)
BELLEVILLE	Belvedere Hotel 360 Front Street	Allore, Mrs. L.	D.R. P.H. (M&W) P.H. (M)
"	Canadian Hotel 37 Dundas Street	Canadian Hotel (Belleville) Ltd.	D.R. P.H. (M&W) P.H. (M)
"	City Hotel 310 Front Street	Yanover, J. N.	D.R. P.H. (M&W) P.H. (M)
"	Crystal Hotel 317 Front Street	Haggis, Paul	D.R. P.H. (M&W) P.H. (M)
"	Docter's Hotel 237 Station Street	Briens, A. J. and Mrs. C. C.	D.R. P.H. (M&W) P.H. (M)
"	New Queen's Hotel 158 Front Street	New Queen's Hotel Limited	D.R. P.H. (M&W) P.H. (M)
"	Quinte Hotel Bridge and Pinnacle Streets	Hotel Quite Limited	D.R. P.H. (M&W) P.H. (M)
BERWICK	Ottawa Hotel	Chales, P. H.	D.R. P.H. (M&W) P.H. (M)
BIGWOOD	Commercial Hotel	Hennessy, T. A.	D.R. P.H. (M&W) P.H. (M)
BLENHEIM	Blenheim Hotel	Kent, D. E.	D.R. P.H. (M&W) P.H. (M)
"	Cadillac Hotel Talbot Street	Getty, F. H. and Mrs. J.	D.R. P.H. (M&W) P.H. (M)
BLIND RIVER	Harmonic Hotel Woodward Avenue	Laforge, Arthur and Alfred	D.R. P.H. (M&W) P.H. (M)
" "	Lincoln Hotel	Doyle, J. J. and Robert, J.	D.R. P.H. (M&W) P.H. (M)
" "	Riverside Hotel	Gauthier, A.	D.R. P.H. (M&W) P.H. (M)
" "	Riverview Hotel	Berthelot, J. L.	D.R. P.H. (M&W) P.H. (M)
BONFIELD	Ottawa Hotel	Corbeil, N.	D.R. P.H. (M&W) P.H. (M)
BOTHWELL	Central Hotel 164 Main Street	Morgan, L.	P.H. (M&W) P.H. (M)
BOURGET	Royal Hotel	Gagne, R.	D.R. P.H. (M&W) P.H. (M)
BRADFORD	Queen's Hotel Holland Street	McEvoy, H. J. and F. M.	D.R. P.H. (M&W) P.H. (M)
"	Village Inn	Zaykowski, N.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
BRANTFORD	Belmont Hotel 157 Colborne Street	Creasy, Mrs. E. and Rixson, J.	P.H. (M)
”	Bodega Hotel 64 Market Street	Bodega Hotel Limited	D.R. P.H. (M&W) P.H. (M)
”	Brant Hotel 89 Dalhousie Street	Brant Apartments Limited	D.R. P.H. (M&W) P.H. (M)
”	Kerby Hotel 224 Colborne Street	Estate of I. W. Champion and Estate of Miss E. Zimmerman	D.R. P.H. (M&W) P.H. (M)
BRECHIN	Victoria Hotel	Mitchell, F. J.	D.R. P.H. (M&W) P.H. (M)
BRESLAU	Breslau Hotel	Brohman, C.	D.R. P.H. (M&W) P.H. (M)
BRIDGEPORT	Grand Hotel	Berges, E. A.	D.R. P.H. (M&W) P.H. (M)
BRITT	New Magnetawan Hotel	Biasucci, W. A. and Lamondin, E.	D.R. P.H. (M&W P.H. (M)
BROCKVILLE	Garbutt's Hotel 19 King Street East	Ashley, Mrs. J.	D.R. P.H. (M)
”	Grand Central Hotel 130 King Street West	Ness, Mrs. B. M.	P.H. (M& P.H. (M)
”	Manitonna Hotel 1 King Street East	Brockville Hotel Company Ltd.	D.R. P.H. (M)
BRONTE	Pig and Whistle Inn R.R. No. 1	Petroff. C. J., Holubicki, J. and Tucker, Jack	D.R. P.H. (M&W) P.H. (M)
BRUCE MINES	Bayview Hotel Taylor Street	Cox, Russell H.	D.R. P.H. (M&W) P.H. (M)
BURK'S FALLS	Central Hotel	Bowie, Mrs. A. M. and Brasher, Miss B. E.	D.R. P.H. (M&W) P.H. (M)
BURLINGTON	Sherwood Inn 35 Brant Street	Smylski, Mrs. D.	D.R. P.H. (M&W) P.H. (M)
CACHE BAY	Traveller's Hotel	St. George, L.	D.R. P.H. (M&W) P.H. (M)
CALEDONIA	Exchange Hotel Argyle Street	Exchange Hotel Limited	D.R. P.H. (M&W) P.H. (M)
”	Union Hotel Argyle Street	O'Meara, D.	D.R. P.H. (M&W) P.H. (M)
CALLANDER	Callander Hotel	Stirling, Mrs. L.	D.R. P.H. (M&W) P.H. (M)
”	Red Line Inn	Wookey, L.	D.R. P.H. (M&W) P.H. (M)
CALONG	Waverly Hotel	Clarke, G. R.	D.R. P.H. (M&W) P.H. (M)
CAPREOL	Capreol Hotel Front Street	Capreol Hotel Company Ltd.	D.R. P.H. (M&W) P.H. (M)
CARDINAL	Dillon Hotel	Dillon, W. A.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
Cargill	Village Inn	Schmidt, R. G.	D.R. P.H. (M&W) P.H. (M)
Carlsbad Springs	Johnson's Hotel (Summer)	Johnson, Mrs. H.	D.R. P.H. (M&W) P.H. (M)
Carlsruhe	British Hotel	Halter, C. J.	D.R. P.H. (M&W) P.H. (M)
Casselman	New Commercial Hotel	Giroux, P.	D.R. P.H. (M&W) P.H. (M)
"	Russell Hotel Main Street	Landry, H.	D.R. P.H. (M&W) P.H. (M)
Cayuga	Campbell Hotel	LaVieille, N. P.	P.H. (M&W) P.H. (M)
"	Cayuga Hotel Talbot Street	Allewell, J. C.	D.R. P.H. (M&W) P.H. (M)
Central Patricia	Patricia Hotel	Wilson, E. S.	D.R. P.H. (M&W) P.H. (M)
Chalk River	Chalk River Hotel	Dover, C. C.	D.R. P.H. (M&W) P.H. (M)
Chaput Hughes	Village Hotel	Dame, A.	D.R. P.H. (M&W) P.H. (M)
Chatham	C.P.R. Hotel 9-11 King Street West	Ross, A. N. and Rosenberg, A. B.	P.H. (M&W) P.H. (M)
"	Chatham Hotel 49 Fifth Street	Kerr, J. B.	D.R. P.H. (M&W) P.H. (M)
"	Merrill Hotel 2 King Street West	Harris, L.	P.H. (M&W) P.H. (M)
"	Rankin Hotel 182 King Street West	Pleasence, J. J. and Mrs. J. J.	D.R. P.H. (M&W) P.H. (M)
"	William Pitt Hotel 30 Sixth Street	William Pitt Hotel Limited	D.R. P.H. (M&W) P.H. (M)
Chatsworth	Campbell Hotel	Crawford, J. F. and Mrs. M.	D.R. P.H. (M&W) P.H. (M)
Chelmsford	Algoma Hotel	Trottier, D. and P.	D.R. P.H. (M&W) P.H. (M)
"	Welcome Hotel Front Street	Vaillancourt, E.	D.R. P.H. (M&W) P.H. (M)
Chepstow	King Edward Hotel	Fleming, Mrs. M.	D.R. P.H. (M&W) P.H. (M)
Chesterville	Albert's Hotel	Lefebvre, A. A.	D.R. P.H. (M&W) P.H. (M)
"	McCloskey Hotel	Barker, F. W.	D.R. P.H. (M&W) P.H. (M)
Chippawa	Riverside Hotel	Sainovich, G.	D.R. P.H. (M&W) P.H. (M)
Chute A Blondeau	Central Hotel	Martineau, D.	D.R. P.H. (M&W) P.H. (M)
Clarence Creek	Du Peuple Hotel	Potvin, E.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
CLIFFORD	Mansion Inn Elora Street	Kruspe, J. A.	D.R. P.H. (M&W) P.H. (M)
COBALT	Fraser Hotel 24 Prospect Avenue	Abraham, E. A. and R.	D.R. P.H. (M&W) P.H. (M)
COBOCONK	Pattie Hotel Main Street	Cheney, G. J.	D.R. P.H. (M&W) P.H. (M)
COBOURG	Baltimore Hotel 174 Division Street South	Mackie, J. W.	D.R. P.H. (M&W) P.H. (M)
"	British Hotel 68 King Street West	Caughey, L. A.	D.R. P.H. (M&W) P.H. (M)
"	Chateau Hotel 55 King Street East	Rogers, Mrs. B. E.	D.R. P.H. (M&W) P.H. (M)
"	New Dunham Hotel 256 Division Street	Bell, F. J.	P.H. (M&W) P.H. (M)
"	New Royal Hotel 73 King Street	Midgley, Mrs. E. M.	D.R. P.H. (M&W) P.H. (M)
COCHRANE	Albert Hotel 183 Railroad Street	Boisvert, A.	D.R. P.H. (M&W) P.H. (M)
"	King George Hotel Fourth and Railway Streets	Dobenko, M.	D.R. P.H. (M&W) P.H. (M)
"	Northland Hotel	Johnson, Mrs. A.	P.H. (M&W) P.H. (M)
"	Stevens Hotel 223 Railway Street	Stevens, Mrs. F. E.	D.R. P.H. (M&W) P.H. (M)
CONESTOGO	Trail's End Hotel 5 King Street	Richter, M.	D.R. P.H. (M&W) P.H. (M)
CONNAUGHT STATION	Connaught Hotel	Racicot, L.	D.R. P.H. (M&W) P.H. (M)
CORNWALL	Cornwallis Hotel 22 Second Street, West	Cornwall Community Hotel Company Limited	D.R. P.H. (M&W) P.H. (M)
"	King George Hotel 3 Second Street East	Thomas & Nash Limited	D.R. P.H. (M&W) P.H. (M)
"	Lloyd George Hotel 15 Pitt Street	Lloyd & George Hotel Co., Ltd.	D.R. P.H. (M&W) P.H. (M)
"	Royal Hotel 348 Montreal Road	Fred Lefebvre Company, Ltd.	D.R. P.H. (M&W) P.H. (M)
COURTLAND	Courtland Hotel	Vecsi, J.	D.R. P.H. (M&W) P.H. (M)
COURTWRIGHT	Courtwright Hotel Front Street	Caraher, D. D.	D.R. P.H. (M&W) P.H. (M)
CROWLAND	Station Hotel 619 King Street	Adamcryck, J. and Zuba, A.	D.R. P.H. (M&W) P.H. (M)
CRYSLER	Commercial Hotel	Brisebois, E. and Martin, D. E.	D.R. P.H. (M&W) P.H. (M)
CRYSTAL BEACH	Martinell Hotel Queen's Circle	O'Brien, Mrs. M. E.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
Crystal Beach	Ontario Hotel (Summer) 5 Derby Road	Holmes, W.	D.R. P.H. (M&W) P.H. (M)
" "	Teal's Hotel 45 Erie Road	Teal, Mrs. J. B.	D.R. P.H. (M&W) P.H. (M)
" "	Park Hotel (Summer) 22 Derby Road	Hitch, Mrs. E.	D.R. P.H. (M&W) P.H. (M)
Crystal Falls	Chebogan Hotel (Summer)	Fisher, R.	D.R. P.H. (M&W) P.H. (M)
Curran	Curran Hotel	Duchesne, E. P.	D.R. P.H. (M&W) P.H. (M)
Delhi	Stoddard Hotel King and Main Streets	Tuinyla, M.	D.R. P.H. (M&W) P.H. (M)
Desboro	Desboro Hotel	Fitzpatrick, J.	D.R. P.H. (M&W) P.H. (M)
Deseronto	Arlington Hotel Main Street	Marek, S. R.	D.R. P.H. (M&W) P.H. (M)
Douglas	Minto Hotel	Neville, M. T.	D.R. P.H. (M)
Dresden	Morgan Hotel Main Street	Weese, D. J.	D.R. P.H. (M&W) P.H. (M)
Dryden	Central Hotel 20 King Street	Kunza, A. A.	D.R. P.H. (M&W) P.H. (M)
"	Dryden Hotel 74 Queen Street	Self, W. E.	D.R. P.H. (M&W) P.H. (M)
Dundas	Central Hotel 93 King Street	Haley, E. J.	D.R. P.H. (M&W) P.H. (M)
"	Collins Hotel 33 King Street	Lowry, E. F.	D.R. P.H. (M)
"	Melbourne Hotel 89 King Street	Deratnay, G.	D.R. P.H. (M&W) P.H. (M)
Dunnville	Queen's Hotel 121 Main Street	Edgar, G. R.	D.R. P.H. (M&W) P.H. (M)
"	Savoy Hotel 418 Chestnut Street	Clay, Shirley	D.R. P.H. (M&W) P.H. (M)
"	Victoria Hotel Chestnut Street	Garbutt, F.	D.R. P.H. (M&W) P.H. (M)
Eagle River	Cascade Hotel	Johnson, M.A. and Barrieau, J.	D.R. P.H. (M&W) P.H. (M)
Earlton	Cecil Hotel	Paiement, R.	D.R. P.H. (M&W) P.H. (M)
"	LaSalle Hotel	Cloutier, A.	D.R. P.H. (M&W) P.H. (M)
Eastview	Claude Hotel 48 Beechwood Avenue	Claude Hotel Company Ltd.	D.R. P.H. (M&W) P.H. (M)
"	Eastview Hotel 120 Montreal Road	Eastview Hotel Ltd.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
EGANVILLE	Central Hotel	Foy, F. C.	D.R. P.H. (M)
”	Eganville Hotel	Sammon, Miss M.	D.R. P.H. (M)
ELGIN	Empire Hotel Perth and Water Streets	O'Connor, G. F. and Murphy, Mrs. A. M.	D.R. P.H. (M&W) P.H. (M)
ELK LAKE	King Edward Hotel	Sauve, L.	D.R. P.H. (M&W) P.H. (M)
”	Stonehouse Hotel Fourth Street	Marion, Ed.	D.R. P.H. (M&W) P.H. (M)
ELMIRA	Royal Hotel 4 Arthur Street	Harvey, G. J.	D.R. P.H. (M&W) P.H. (M)
”	Steddick Hotel 52 Arthur Street	Yanchus, Mrs. P. E.	D.R. P.H. (M&W) P.H. (M)
ELMVALE	New Palace Hotel Queen Street	Smith, A.	D.R. P.H. (M&W) P.H. (M)
ELMWOOD	Queen's Hotel	Sainsbury, O.	D.R. P.H. (M&W) P.H. (M)
ELORA	Iroquois Hotel Metcalfe Street	Wood, J. A.	D.R. P.H. (M&W) P.H. (M)
EMBRUN	Standard Hotel	Burelle, P. A.	D.R. P.H. (M&W) P.H. (M)
EMO	Emo Hotel	Grodwick, M. and Chorny, Wm.	D.R. P.H. (M&W) P.H. (M)
ENGLEHART	Commercial Hotel Fourth Avenue	Clark, J.	D.R. P.H. (M&W) P.H. (M)
”	Eldon Hotel	Morris, J.	D.R. P.H. (M&W) P.H. (M)
ERIEAU	Lakeview Hotel	Yandrash, I.	D.R. P.H. (M&W) P.H. (M)
ERIN	Busholme Hotel	Fullerton, A. M.	D.R. P.H. (M&W) P.H. (M)
ERINSVILLE	Lakeview Hotel	Wagar, W. S.	D.R. P.H. (M&W) P.H. (M)
ESPANOLA	Espanola Hotel 1 Barber Street	Alexander, D.	P.H. (M)
ESSEX	Aberdeen Hotel Talbot Street	Stotts, W. F.	D.R. P.H. (M&W) P.H. (M)
”	Grand Central Hotel 70 Talbot Street	Crowley, L. L.	D.R. P.H. (M&W) P.H. (M)
FAIRBANK	Fairbank Hotel 2418 Dufferin Street	Crawford, S. B.	D.R. P.H. (M&W) P.H. (M)
FALLS VIEW	Falls View Hotel 2434 Stanley Avenue	Podhorn, S. F.	D.R. P.H. (M&W) P.H. (M)
FAVORABLE LAKE	Hill Top Lodge	Hill Top Lodge Company Ltd.	P.H. (M&W) P.H. (M)
FERRIS WEST	Lakeview Inn	MacLean, Mrs. E. I.	D.R. P.H. (M&W) P.H. (M)

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FIELD	Field Hotel	Sauve, L.	D.R. P.H. (M&W) P.H. (M)
FISHERVILLE	Erie Hotel	Benner, W. E.	P.H. (M&W) P.H. (M)
FLINTON	Stewart Hotel Holden Street	Yanch, J. E.	D.R. P.H. (M&W) P.H. (M)
FOLEYET	Commercial Hotel	Robert, J. and Denommee, M.	D.R. P.H. (M&W) P.H. (M)
FORBES	Maple Leaf Hotel	Dubois, Z. and Giroux, A.	D.R. P.H. (M&W) P.H. (M)
FORMOSA	Commercial Hotel	Schnurr, C.	D.R. P.H. (M&W) P.H. (M)
FORT ERIE	Anglo-American Hotel 280 Niagara Boulevard	Neichenbauer, A. and Yovetich, S.	D.R. P.H. (M&W) P.H. (M)
" "	Fort Erie Hotel 224 Garrison Road	Wetzel, P. H.	D.R. P.H. (M&W) P.H. (M)
" "	New King Edward Hotel 271 Niagara Boulevard	Sima, A., Stanko, M. and Sima, A., Jr.	D.R. P.H. (M&W) P.H. (M)
FORT ERIE NORTH	Royal Hotel 1 Niagara Boulevard	Stanek, P. and Dymon, J.	D.R. P.H. (M&W) P.H. (M)
FORT FRANCES	Emperor Hotel 400 Front Street	Kudacki, W. and Bodnarczuk, A.	D.R. P.H. (M&W) P.H. (M)
" "	Fort Frances Hotel 427 Mowat Street	DeCruyenaere, A. A.	D.R. P.H. (M&W) P.H. (M)
" "	Monarch Hotel Front Street	Irwin, Larry	D.R. P.H. (M&W) P.H. (M)
" "	Prince Albert Hotel 131 Church Street	Griffiths, Mrs. M.	D.R. P.H. (M&W) P.H. (M)
" "	Rainy Lake Hotel 235 Scott Street	The Rainy Lake Hotel Company Limited	D.R. P.H. (M&W) P.H. (M)
" "	White Pine Inn 800 Scott Street	Crawford, A. G.	D.R. P.H. (M&W) P.H. (M)
FORT WILLIAM	Adanac Hotel 227 Simpson Street	Hanley, Wm. Jos.	P.H. (M&W) P.H. (M)
" "	Empire Hotel 140 Simpson Street	Hurtig, M. and B.	D.R. P.H. (M&W) P.H. (M)
" "	Royal Edward Hotel 114 South May Street	Fort William Hotels Limited	D.R. P.H. (M&W) P.H. (M)
" "	St. Louis Hotel 401 Victoria Avenue	Rothwell, S. E.	D.R. P.H. (M&W) P.H. (M)
" "	Simpson Hotel 401 Simpson Street	Watson, R. O.	D.R. P.H. (M&W) P.H. (M)
" "	Victoria Hotel Victoria Avenue and Syndicate Street	Wadson, I. I.	P.H. (M&W) P.H. (M)
" "	West Hotel 126 Simpson Street	Black, A. J.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
Fort William	Alexander Hotel 100 Gore Street	Zaroski, John	D.R. P.H. (M&W) P.H. (M)
Fournier	Commercial Hotel Main Street	Besner, L.	D.R. P.H. (M&W) P.H. (M)
Franz	Franz Hotel	Miller, Mrs. A. M.	D.R. P.H. (M&W) P.H. (M)
Galt	Iroquois Hotel 129 Main Street	Iroquois Hotel Limited	D.R. P.H. (M&W) P.H. (M)
"	New Albion Hotel 103 Water Street, North	Bellmore, W. G. and Mrs. Agnes	D.R. P.H. (M&W) P.H. (M)
"	Overland Hotel 18 Concession Street	White, Mrs. F. E.	D.R. P.H. (M&W) P.H. (M)
"	Royal Hotel 138 Main Street	S. A. Greer Interests Limited	P.H. (M&W) P.H. (M)
Gananoque	Gananoque Inn Stone Street	Gananoque Inn Limited	D.R. P.H. (M&W) P.H. (M)
"	Provincial Hotel King Street	McCarney, H. S.	D.R. P.H. (M)
Garson	Royale Hotel Church and Birch Streets	Mady, C. A.	D.R. P.H. (M&W) P.H. (M)
Georgetown	McGibbon Hotel Main Street	Estate of S. H. McGibbon	D.R. P.H. (M&W) P.H. (M)
Geraldton	Geraldton Hotel 130 First Avenue North	Draper, W. F.	P.H. (M&W) P.H. (M)
"	Thunder Bay Hotel Main Street	Koleff, K.	P.H. (M&W) P.H. (M)
"	Queen's Hotel	Pawlowski, M.	P.H. (M&W) P.H. (M)
Glencoe	McKellar Hotel Main and McKellar Streets	Loosemore, Mrs. E.	D.R. P.H. (M&W) P.H. (M)
Glen Orchard Post Office	Sherwood Inn	Sherwood Inn Limited	D.R.
Gogama	Gogama Hotel	Giroux, A.	D.R. P.H. (M&W) P.H. (M)
Golden Lake	Golden Lake Hotel	Layman, C.	D.R. P.H. (M&W) P.H. (M)
Gowganda	White Hotel	LaFrance, H. and Mrs. D.	D.R. P.H. (M&W) P.H. (M)
Gravenhurst	Albion Hotel Muskoka Street	Fletcher, Mrs. E. E.	D.R. P.H. (M&W) P.H. (M)
"	Gilmour Hotel Muskoka Street	Estate of R. P. Powell	D.R. P.H. (M&W) P.H. (M)
Grimsby	Village Inn 57 Main Street	Hannah, G. A.	D.R. P.H. (M&W) P.H. (M)
Guelph	Albion Hotel 49 Norfolk Street	Thompson, Mrs. M. P.	D.R. P.H. (M&W) P.H. (M)
"	King Edward Hotel 2 Wyndham Street	Walsh, W. and Musselman, H. C.	P.H. (M&W) P.H. (M)
"	New Western Hotel 72 Macdonnell Street	Singular, J. A.	D.R. P.H. (M&W) P.H. (M)

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GUELPH	Regent Hotel 52 Macdonnell Street	Regent Hotel (Guelph) Limited	D.R. P.H. (M&W) P.H. (M)
”	Royal Hotel 106 Garden Street	Fischer Brothers Limited	D.R. P.H. (M&W) P.H. (M)
”	Wellington Hotel 153 Wyndham Street	Bristol Hotel Company Limited	D.R. P.H. (M&W) P.H. (M)
HAGAR	Royal Hotel	Roy, C.	D.R. P.H. (M&W) P.H. (M)
HAGERSVILLE	Commercial Hotel King Street	Dubrick, C.	D.R. P.H. (M&W) P.H. (M)
”	New Alward Hotel Main Street	Edmunds, F. C.	D.R. P.H. (M&W) P.H. (M)
HAILEYBURY	Haileybury Hotel Ferguson Avenue	New Timiskaming Hotel Ltd.	D.R. P.H. (M&W) P.H. (M)
”	Matabanick Hotel	Fleming, N. P.	D.R. P.H. (M&W) P.H. (M)
HAMILTON	Armoury Hotel 195 James Street North	Armoury Hotel Company Ltd.	D.R. P.H. (M&W) P.H. (M)
”	Fischer's Hotel 51 York Street	Fischer, W. L.	D.R. P.H. (M&W) P.H. (M)
”	Iroquois Hotel 94 King Street West	Hultay, W.	D.R. P.H. (M&W) P.H. (M)
”	King George Hotel 27 McNab Street North	Salonen, Chas.	P.H. (M&W) P.H. (M)
”	Royal Connaught Hotel 112 King Street East	Connaught Hotel Company Ltd.	D.R. P.H. (M&W) P.H. (M)
”	Terminal Hotel 180 King Street East	Bach, H. C.	D.R. P.H. (M&W) P.H. (M)
”	Waldorf Hotel 28 Merrick Street	Schwartz, Mrs. H.	P.H. (M)
”	Wentworth Arms Hotel Main and Hughson Streets	Munro, Misses A. B. M.	D.R. P.H. (M&W) P.H. (M)
”	Windsor Hotel 31 John Street North	J. Ross Fischer Hotels Limited	D.R. P.H. (M&W) P.H. (M)
HAMMOND	Juntion Hotel	Gendron, A.	D.R. P.H. (M)
HANMER	Joffre Hotel	Cayen, L. B.	D.R. P.H. (M&W) P.H. (M)
HANOVER	Hanover Inn Furham Road	Kormann, H. L.	D.R. P.H. (M&W) P.H. (M)
”	Queen's Hotel Durham Road	Francis, Mrs. L. L.	D.R. P.H. (M&W) P.H. (M)
HARRISTON	Coronation Hotel Elora Street	Payne, A. B.	D.R. P.H. (M&W) P.H. (M)
”	Royal Inn Elora Street	Perry, Dale	D.R. P.H. (M&W) P.H. (M)
HASTINGS	Royal Hotel Bridge and Water Streets	Jones, E. W.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
HAWKESBURY	King Edward Hotel	Lalonde, E. J.	D.R. P.H. (M&W) P.H. (M)
"	Royal Hotel 24 Main Street, West	Castonguay, J. B. Albert, Marie, Claire and Denault, Leslie	D.R. P.H. (M&W) P.H. (M)
HAWK JUNCTION	Hawk Junction Hotel	Flanagan, W. G. and Mrs. L. V.	D.R. P.H. (M&W) P.H. (M)
HEARST	Palace Hotel Ninth Street	Charpentier, F.	D.R. P.H. (M)
"	Queen's Hotel Ninth Street	Knipprath, H.	D.R. P.H. (M&W) P.H. (M)
"	Waverley Hotel Front Street	Groothelm, E.	D.R. P.H. (M&W) P.H. (M)
"	Windsor Hotel	Hudon, T.	D.R. P.H. (M&W) P.H. (M)
HEPWORTH	Royal Hotel Queen Street	Bonser, R. A.	D.R. P.H. (M&W) P.H. (M)
HERON BAY	North Shore Hotel	North Shore Hotel Company Limited	P.H. (M&W) P.H. (M)
HESPELER	Hespeler Hotel	Jaras, M.	D.R. P.H. (M&W) P.H. (M)
"	Queen's Hotel	Cornell, J. S.	D.R. P.H. (M&W) P.H. (M)
HILTON BEACH	Hilton Beach Hotel	Wells, S.	D.R. P.H. (M&W) P.H. (M)
HOLTYRE	LaSalle Hotel	LaSalle, J. P.	D.R. P.H. (M&W) P.H. (M)
HONEY HARBOUR	Delawana Inn (Summer)	Grise, F. S. and G. E.	D.R. P.H. (M&W) P.H. (M)
" "	Royal Hotel	Grise Bros. Limited	P.H. (M&W) P.H. (M)
HORNEPAYNE	Hornepayne Hotel	Easton, Norman A.	D.R. P.H. (M&W) P.H. (M)
"	Taylor's Hotel	Taylor, R. J. and Mrs. A. M.	D.R. P.H. (M&W) P.H. (M)
HUDSON	Grandview Hotel	Gastmeier, R. J.	D.R. P.H. (M&W) P.H. (M)
HUMBERSTONE	City Hotel 202 Main Street	Misener, Melvin	D.R. P.H. (M&W) P.H. (M)
HUNTSVILLE	Bayview Hotel 100 Main Street	Dopfer, T. S.	D.R. P.H. (M&W) P.H. (M)
"	Dominion Hotel Main Street	Stirling, Mrs. L.	D.R. P.H. (M&W) P.H. (M)
IGNACE	Ignace Hotel Front Street	Smilsky, W.	D.R. P.H. (M&W) P.H. (M)
IRON BRIDGE	Rod & Gun Hotel	Milligan, C. E. and E.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
JACKFISH	Lakeview Hotel	Spadoni Brothers Limited	D.R. P.H. (M&W) P.H. (M)
JACKSON'S POINT	Lake Simcoe Hotel	Peace, E. M	D.R. P.H. (M&W) P.H. (M)
" "	Kenwood Hotel	Farrell, J	D.R. P.H. (M&W) P.H. (M)
JAMOT	Beausejour Hotel	Bouverat, J. P. L.	D.R. P.H. (M&W) P.H. (M)
JARVIS	Jarvis Hotel	Slack, W. R.	D.R. P.H. (M&W) P.H. (M)
JASPER	Jasper Hotel	Watson, B.	D.R. P.H. (M&W) P.H. (M)
JONES FALLS	Hotel Kenney (Summer)	Kenney, T. J	D.R. P.H. (M)
JORDAN	Dwarf Village Inn	Kozak, Ilia and Marsh, Alex.	D.R. P.H. (M&W) P.H. (M)
KALADAR	Kaladar Hotel	Brydson, Glenn	D.R. P.H. (M&W) P.H. (M)
KAPUSKASING	Commercial Hotel 5 O'Brien Avenue	Desgroseilliers, O.	D.R. P.H. (M&W) P.H. (M)
"	Empire Hotel 30 Henderson Avenue	Paquette, J.	D.R. P.H. (M&W) P.H. (M)
"	Radio Hotel Henderson and O'Brien Streets	Spooner, F. J	P.H. (M)
"	Kapuskasing Inn	Spruce Falls Power & Paper Company Limited	P.H. (M&W) P.H. (M)
KEARNEY	Kearney Hotel	Whittaker, J	D.R. P.H. (M&W) P.H. (M)
KEARNS	Park Hotel Government Road	Ferianz, M.	D.R. P.H. (M&W) P.H. (M)
KEEWATIN	Bay City Hotel Front and Main Streets	Rochon, Mrs. G.	D.R. P.H. (M&W) P.H. (M)
"	Lakeshore Hotel	Grendys, W.	P.H. (M&W) P.H. (M)
KENOGAMI LAKE	Kenogami Hotel	Malnerich, P.	D.R. P.H. (M&W) P.H. (M)
KENORA	Commercial Hotel 101 Chipman Street	Pidlubney, G. and Barrieau, J.	D.R. P.H. (M&W) P.H. (M)
"	Kenricia Hotel Main and Second Streets	Kenricia Hotel Company Ltd.	D.R. P.H. (M&W) P.H. (M)
"	Lake of the Woods Hotel 132 Matheson Street	Corneillie, H.	D.R. P.H. (M&W) P.H. (M)
"	Ottawa Hotel 219 Matheson Street	McKay, R.	P.H. (M)
KEYSTONE ISLAND	Keystone Camp Hotel (Summer)	Keystone Properties Limited	P.H. (M&W) P.H. (M)
KILLALOE STATION	Beresford Hotel	Hanson, C. R.	D.R. P.H. (M)
KING KIRKLAND	King Kirkland Hotel	Lapierre, A.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
KINGSTON	British American Hotel 42 Clarence Street	The Randolph Hotel Company Limited	D.R. P.H. (M&W) P.H. (M)
”	Frontenac Hotel 178 Ontario Street	Hyde, H. A.	D.R. P.H. (M&W) P.H. (M)
”	LaSalle Hotel Bagot Street	Randolph Hotel Company Ltd.	D.R. P.H. (M&W) P.H. (M)
”	New Windsor Hotel 205 Princess Street	Gilmour, Mrs. J. S.	D.R. P.H. (M&W) P.H. (M)
”	Plaza Hotel 46 Montreal Street	Johnson, H. M.	D.R. P.H. (M)
”	Prince George Hotel 200 Ontario Street	Amey, W. J. and F. L.	D.R. P.H. (M)
”	Queen's Hotel 125 Brock Street	Berrigan, T., E. A., and M. J.	D.R. P.H. (M)
KINGSVILLE	Kingsville Hotel Main Street	O'Malley, W. P. and Egan, Mrs. S.	D.R. P.H. (M&W) P.H. (M)
”	Lakeshore Terrace Park Street	Mettawas Hotel Company Ltd.	D.R. P.H. (M&W) P.H. (M)
KIRKLAND LAKE	Charlie's Hotel 34 Government Road West	Chow, C.	D.R. P.H. (M&W) P.H. (M)
” ”	Franklin Hotel 60 Government Road West	Bedner, P. J.	D.R. P.H. (M&W) P.H. (M)
” ”	Gold Range Hotel 45 Government Road West	Atkins, B.	D.R. P.H. (M&W) P.H. (M)
” ”	Kirkland Lake Hotel 55 Government Road West	Elliott, H. E.	D.R. P.H. (M&W) P.H. (M)
” ”	Park Lane Hotel 2 Government Road West	Princess Hotel Limited	D.R. P.H. (M&W) P.H. (M)
” ”	Prince George Hotel 95 Government Road West	Ducheneau, A. and Lavigne, C.	D.R. P.H. (M&W) P.H. (M)
” ”	Princess Hotel 1 Government Road West	Princess Hotel Limited	D.R. P.H. (M&W) P.H. (M)
” ”	Queen's Hotel 40 McCamus Avenue	Desgroseilliers, L.	P.H. (M&W) P.H. (M)
” ”	Windsor Hotel 43 Government Road West	Kaplan, H.	D.R. P.H. (M&W) P.H. (M)
KITCHENER	American Hotel 1 Queen Street North	Wagner, M.	D.R. P.H. (M&W) P.H. (M)
”	Kitchener Hotel 101 King Street East	Kitchener Hotels Limited	D.R. P.H. (M&W) P.H. (M)
”	Mayfair Hotel 11 Young Street	Mayfair Hotel Limited	D.R. P.H. (M&W) P.H. (M)
”	Station Hotel 122 Weber Street West	Chris, S.	P.H. (M&W) P.H. (M)
”	Walper Hotel 1 King Street West	Kitchener Hotels Limited	D.R. P.H. (M&W) P.H. (M)
”	Windsor Hotel 168 King Street West	Estate of C. J. Bruder	P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
Lancaster	Commercial Hotel	Leger, Lorenzo	D.R. P.H. (M&W) P.H. (M)
Larder Lake	Grainger Hotel 205 Godfrey Street	Gadzalas, V.	D.R. P.H. (M&W) P.H. (M)
" "	Larder Lake Hotel	Dobrijevich, I.	D.R. P.H. (M&W) P.H. (M)
Latchford	Lady Evelyn Hotel	Burns, M.	D.R. P.H. (M&W) P.H. (M)
Lavigne	Lavigne Hotel	Martin, J. R.	D.R. P.H. (M&W) P.H. (M)
Leamington	Auto Stop Inn	Vlasic, I.	D.R. P.H. (M&W) P.H. (M)
"	International Hotel 35 Erie Street South	Sarochan, W. and Evanson, A.	D.R. P.H. (M&W) P.H. (M)
"	Leamington Hotel 58 Talbot Street East	Brown, M.	D.R. P.H. (M&W) P.H. (M)
Lefaivre	Pregent Hotel	Pregent, A.	D.R. P.H. (M&W) P.H. (M)
Lindsay	Benson Hotel 24 Kent Street	Egan, R. V. and Dawe, W. A.	D.R. P.H. (M&W) P.H. (M)
"	Central Hotel 7 William Street South	Maunder, D. J.	D.R. P H. (M&W) P.H. (M)
"	Grand Hotel 171 King Street West	Bland, S.	D.R. P.H. (M&W) P.H. (M)
"	New Royal Hotel 2 Kent Street	Adam, J. S. and Fralick, C. A.	P.H. (M&W) P.H. (M)
Linwood	Linwood Hotel	Meyers, Leander	D.R. P.H. (M&W) P.H. (M)
London	Belvedere Hotel 105 Dundas Street	Parsons, A.	D.R. P.H. (M)
"	Brunswick Hotel 331 Talbot Street	Herbert, W. H.	P.H. (M&W) P.H. (M)
"	C.P.R. Hotel 671 Richmond Street	Richardson, Mrs. E.	D.R. P.H. (M&W) P.H. (M)
"	Clarendon Hotel 369 Talbot Street	Deratnay, M.	P.H. (M&W) P.H. (M)
"	Esquire Hotel 372 Dundas Street	Aitken, G. S.	P.H. (M&W) P.H. (M)
"	Fraser Hotel 183 King Street	Fraser, A. and G.	D.R. P.H. (M&W) P.H. (M)
"	Grigg Hotel York and Richmond Streets	Vallance, F. T.	D.R. P.H. (M&W) P.H. (M)
"	Iroquois Hotel 367 Clarence Street	Downey, D. M.	D.R. P.H. (M&W) P.H. (M)
"	London Hotel 279 Dundas Street	London Realty Company Ltd.	P.H. (M&W) P.H. (M)
"	London House Hotel 415 Talbot Street	Brennan, Mrs. M. M. and Clark, Mrs. A. M.	P.H. (M&W) P.H. (M)
"	Mayfair Hotel 89 King Street	Wakeam, A. K.	D.R. P.H. (M&W) P.H. (M)

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LONDON	Richmond Hotel 370 Richmond Street	Cook, W. L.	D.R. P.H. (M&W) P.H. (M)
”	Savoy Hotel 398 Clarence Street	Vasser, J. S., A. A. and E. C.	D.R. P.H. (M&W) P.H. (M)
”	Sunnyside Hotel 732 Dundas Street	Hassan, A.	P.H. (M&W) P.H. (M)
”	York Hotel 216 York Street	Assaf, A.	P.H. (M&W) P.H. (M)
LONG BRANCH	Eastwood Park Hotel 1585 Lakeshore Road	Laurent, P. G.	D.R. P.H. (M&W) P.H. (M)
LONG LAC	Long Lac Hotel	Gaffney, T. J. and Mrs. A.	P.H. (M)
L'ORIGNAL	Riverview Hotel	Dubois, F.	D.R. P.H. (M&W) P.H. (M)
LUCAN	Central Hotel Main Street	Sitzer, Samuel	D.R. P.H. (M&W) P.H. (M)
MADOC	Blue's Hotel Durham Street	Blue, L. C.	D.R. P.H. (M&W) P.H. (M)
MAGNETAWAN	Schmeler Hotel	Schmeler, W. E.	D.R. P.H. (M&W) P.H. (M)
MARATHON	Everest Hotel	Marathon Paper Mills of Canada Limited	P.H. (M)
MARKSTAY	Markstay Hotel	Hillman, H. and St. Denis, N.	D.R. P.H. (M&W) P.H. (M)
MARLBANK	O.K. Hotel Queen Street	Schell, S. P.	D.R. P.H. (M&W) P.H. (M)
MARMORA	Royal Hotel Forsyth Street	Neath, H. J.	D.R. P.H. (M&W) P.H. (M)
MARTIN LAKE	Beaverland Hotel	Handley, A. J. J.	P.H. (M&W) P.H. (M)
MARYHILL	Commercial Hotel	Halter, T., E., I., T., C. and W.	D.R. P.H. (M&W) P.H. (M)
”	Scherrer Hotel	Scherrer, Mrs. M.	D.R. P.H. (M&W) P.H. (M)
MARYSVILLE	Marysville Hotel	Fahey, J. V.	D.R. P.H. (M&W) P.H. (M)
MASSEY STATION	Clifton Hotel	Estate of H. J. McNenly	D.R. P.H. (M&W) P.H. (M)
MATACHEWAN	Park Hotel	Dalpe, J. A.	D.R. P.H. (M&W) P.H. (M)
”	Riverview Hotel Lot 18, Mayneur Avenue	Simons, Harry L.	D.R. P.H. (M&W) P.H. (M)
MATHESON	Bermont Hotel	Kaye, Montague D.	D.R. P.H. (M&W) P.H. (M)
MATTAWA	Mattawa Hotel	MacKechnie, Mrs. K.	D.R. P.H. (M&W) P.H. (M)
”	Trans-Canada Hotel	Morel, Mrs. B.	D.R. P.H. (M&W) P.H. (M)
MATTICE	Empire Hotel	Gagnon, Napoleon	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
MAYNOOTH	Arlington Hotel	Painter, W. B.	D.R. P.H. (M&W) P.H. (M)
McINTOSH SPRINGS	McIntosh Hotel	Tremblay, H.	D.R. P.H. (M&W) P.H. (M)
McKENZIE ISLAND	Gold Eagle Hotel	Gold Eagle Hotel Company Ltd.	D.R. P.H. (M&W) P.H. (M)
McKERROW	McKerrow Hotel	Dominic, A.	D.R. P.H. (M&W) P.H. (M)
MEADOWSIDE	Meadow Inn	Renaud, H.	D.R. P.H. (M&W) P.H. (M)
MERRICKVILLE	Louis Hotel St. Lawrence Street	Crawford, G. R.	D.R. P.H. (M&W) P.H. (M)
MILDMAY	Commercial Hotel	Houghton, J.	D.R. P.H. (M&W) P.H. (M)
McKENZIE RIVER	McKenzie Inn	Miocich, S. N.	D.R. P.H. (M&W) P.H. (M)
MILFORD BAY	Baycliff Inn	Campbell, J. H.	D.R. P.H. (M&W) P.H. (M)
MILLE ROCHES	Ernie's Hotel	Runions, E. N.	D.R. P.H. (M&W) P.H. (M)
MILTON	Kennedy Hotel Main Street	Kennedy, Mrs. R.	D.R. P.H. (M&W) P.H. (M)
”	Milton Inn Main Street	Armstrong, F. W.	D.R. P.H. (M&W) P.H. (M)
MIMICO	Sagamore Hotel 160 Lakeshore Road	Holmes, Thos. and Mrs. S., and Thorndike, J. Jr. and Mrs. R.	D.R. P.H. (M&W) P.H. (M)
MINAKI	Holst Point Inn (Summer)	Smith, H. E. and Ritz, Mrs. G.	D.R. P.H. (M&W) P.H. (M)
”	Minaki Lodge (Summer)	Canadian National Railways	D.R. P.H. (M&W) P.H. (M)
MINDEN	Dominion Hotel	Watson, K. B.	D.R. P.H. (M&W) P.H. (M)
”	Rockcliffe Hotel	Harding, E.	D.R. P.H. (M&W) P.H. (M)
MINE CENTRE	Mine Centre Hotel	Estate of Mrs. M. Law	D.R. P.H. (M&W) P.H. (M)
MINETT	Paignton Hotel (Summer)	Pain, R. D.	P.H. (M&W) P.H. (M)
MISSANABIE	Missanabie Hotel Curran Street	Debrie, Michael	D.R. P.H. (M)
MITCHELL'S BAY	Mitchell's Bay Inn	Pinsonneault, L.	D.R. P.H. (M&W) P.H. (M)
MORRISBURG	Riverside Hotel	Geach, R. W.	D.R. P.H. (M&W) P.H. (M)
”	St. Lawrence Hall Hotel Main and Lock Streets	McGannon, W. A. and Mrs. K.	D.R. P.H. (M&W) P.H. (M)

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MOULINETTE	Lion Hotel	Whiteside, T. D.	D.R. P.H. (M&W) P.H. (M)
MOUNT FOREST	Mount Royal Hotel Main Street	Hahn, O. J.	D.R. P.H. (M&W) P.H. (M)
NAIRN CENTRE	King George Hotel McIntyre Street	Zangari, N. G.	D.R. P.H. (M&W) P.H. (M)
NAKINA	Nakina Hotel Railway Avenue	Ellis, E. F.	D.R. P.H. (M&W) P.H. (M)
"	Commercial Hotel	Aubrey, J. A.	D.R. P.H. (M&W) P.H. (M)
NAPANEE	Paisley Hotel 69 John Street	Simmons, Mrs. M. I.	D.R. P.H. (M&W) P.H. (M)
"	Richelieu Hotel Dundas Street	Goodridge, S. D.	D.R. P.H. (M&W) P.H. (M)
NEUSTADT	Commercial Hotel Mill Street	Himmelspach, J. P.	D.R. P.H. (M&W) P.H. (M)
NEWCASTLE	Elmhurst Hotel	Tayler, Jas. and Mrs. Daisy	D.R. P.H. (M&W) P.H. (M)
"	Queen's Hotel	Byras Limited	D.R. P.H. (M&W) P.H. (M)
NEW DUNDEE	Barton's Inn Main Street	Barton, A. E.	D.R. P.H. (M&W) P.H. (M)
NEW HAMBURG	Imperial Hotel	Rumig, C. J.	D.R. P.H. (M&W) P.H. (M)
" "	King Edward Hotel Waterloo Street	Henning, Oscar R.	D.R. P.H. (M&W) P.H. (M)
NEW LISKEARD	Grand Union Hotel Whitewood Avenue	Evans, L. S.	D.R. P.H. (M)
" "	Windsor Hotel Armstrong Street	Darwin, Mrs. A. G. and Edwards, G.	P.H. (M&W) P.H. (M)
NEW TORONTO	Almont Hotel 1072 Lakeshore Road	Almont Hotel Limited	D.R. P.H. (M&W) P.H. (M)
" "	New Toronto Hotel 781 Lakeshore Road	Lavelle, H. J.	D.R. P.H. (M&W) P.H. (M)
NIAGARA FALLS	Clifton Inn 955 Clifton Hill	Benson, W. P. and Gillespie, A. C.	D.R. P.H. (M&W) P.H. (M)
" "	Fox Head Inn Clifton Hill	Fox, Mrs. E. M.	D.R. P.H. (M&W) P.H. (M)
" "	General Brock Hotel 1685 Falls Avenue	General Brock Hotel Company Limited	D.R. P.H. (M&W) P.H. (M)
" "	King Edward Hotel 659 Clifton Avenue	Davey Hotel Limited	D.R. P.H. (M&W) P.H. (M)
" "	Metropole Hotel 276 Bridge Street	Cohen, M. and Dawe, W. A.	D.R. P.H. (M&W) P.H. (M)

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Niagara Falls	Niagara Hotel 1008 Centre Street	Campaigne, C. W.	D.R. P.H. (M&W) P.H. (M)
Niagara-on-the-Lake	American Hotel (Summer)	Hartzig, M.	D.R. P.H. (M&W) (P.H. M)
" "	Prince of Wales Hotel Picton Street	Prysko, J. H.	D.R. P.H. (M&W) P.H. (M)
" "	Barbary Lodge (Summer) Regent Street	Maidlow, C. J. and M. A.	D.R.
Nipigon	Nipigon Inn	Hogan, W.	P.H. (M&W) P.H. (M)
Noelville	Lafayette Hotel	Daoust, A.	P.H. (M&W) P.H. (M)
"	LaSalle Hotel	Bergeron, E.	P.H. (M&W) P.H. (M)
Norman	Norman Hotel Bay and Ontario Streets	Vodrey, F. B.	D.R. P.H. (M&W) P.H. (M)
North Bay	Continental Hotel 72 Main Street		D.R. P.H. (M&W) P.H. (M)
" "	Empire Hotel Fraser and McIntyre Streets	Empire Hotel Company of Timmins Limited	D.R. P.H. (M&W) P.H. (M)
" "	King George Hotel 1 Ferguson Street	Brazeau, W.	P.H. (M)
" "	St. Regis Hotel Main and Klock Avenue	Mason, W. E.	D.R. P.H. (M&W) P.H. (M)
Northbrook	Northbrook Hotel	Courneya, V. C. and E. J.	D.R. P.H. (M&W) P.H. (M)
Oakville	Halton Inn 48 Colborne Street	Megaffin, B. A.	D.R. P.H. (M&W) P.H. (M)
"	New Murray Hotel	Gordon, J. R.	D.R. P.H. (M&W) P.H. (M)
Oba	Oba Hotel	Vihonen, L. P.	D.R. P.H. (M)
Orient Bay	Royal Windsor Lodge (Summer)	Frazer, A. E. and Beamish, J. H.	D.R. P.H. (M&W) P.H. (M)
Orleans	Orleans Hotel	Laflamme, E.	D.R. P.H. (M&W) P.H. (M)
Oshawa	Cadillac Hotel 394 Simcoe Street South	Vassar, S. S.	D.R. P.H. (M&W) P.H. (M)
"	Central Hotel 9 King Street West	Henry, E. M., McCrohan, K., Chambers, A. L. and McCrohan, M.	D.R. P.H. (M&W) P.H. (M)
"	Commercial Hotel 29 King Street West	Commercial Hotel (Oshawa), Limited	D.R. P.H. (M&W) P.H. (M)
"	Genosha Hotel 70 King Street East	Hotel Genosha (Oshawa), Ltd.	D.R. P.H. (M&W) P.H. (M)
Ottawa	Albion Hotel 1 Daly Avenue	Touhey, W. J.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
OTTAWA	Alexandra Hotel 352 Bank Street	Alexandra Operating Co., Ltd.	D.R. P.H. (M&W) P.H. (M)
"	Belle Claire Hotel 227 Queen Street	MacMillan, H. C.	D.R. P.H. (M&W) P.H. (M)
"	Belmont Hotel 90 Lyon Street	Estate of Thos. Fleming	D.R. P.H. (M&W) P.H. (M)
"	Bytown Inn 71 O'Conner Street	C. J. Smith Estate Company	D.R. P.H. (M&W) P.H. (M)
"	Canada Hotel 62 Murray Street	Menard, Mrs. A. D.	D.R. P.H. (M&W) P.H. (M)
"	Chateau Laurier Hotel Rideau Street	Canadian National Railways	P.H. (M&W) P.H. (M)
"	Duke Hotel 99 Duke Street	Reshitnyk, D., Sabat, W. and Lialiuk, P.	D.R. P.H. (M&W) P.H. (M)
"	Grand Hotel 555 Sussex Street	Delorme, L.	D.R. P.H. (M&W) P.H. (M)
"	King Edward Hotel 599 Sussex Street	Terminal Hotels Limited	D.R. P.H. (M)
"	LaSalle Hotel 245 Dalhousie Street	Lepine, Mrs. O.	D.R. P.H. (M&W) P.H. (M)
"	Lord Elgin Hotel 100 Elgin Street	Ford Hotel Company of Ottawa Limited	P.H. (M&W) P.H. (M)
"	Plaza Hotel 223 Sparks Street	Plaza Hotel Company Limited	P.H. (M)
"	Russel Hotel 596 Sussex Street	Russell Operating Company Limited	D.R. P.H. (M)
"	Windsor Hotel 35 Metcalfe Street	Windsor Hotel (Ottawa) Ltd.	D.R. P.H. (M&W) P.H. (M)
PAINCOURT	Dover Hotel	Trahan, V. S.	D.R. P.H. (M&W) P.H. (M)
PALMERSTON	Hess Hotel	Hammond, Mrs. R. E.	D.R. P.H. (M&W) P.H. (M)
"	Queen's Hotel Queen Street	Jaegar, L.	D.R. P.H. (M&W) P.H. (M)
PARIS	Arlington Hotel 106 Grand River Street	Ealand, Misses E. M. and M. B.	D.R. P.H. (M&W) P.H. (M)
"	Hayes Hotel 26 Mechanic Street	Crawford, W. J.	D.R. P.H. (M&W) P.H. (M)
PARRY SOUND	Kipling Hotel Emily Street	Empire Hotel Company of Timmins Limited	D.R. P.H. (M&W) P.H. (M)
" "	New Belvedere Hotel (Summer)	Peebles, A. G. and Kehoe, C. W.	D.R. P.H. (M&W) P.H. (M)
PEFFERLAW	Belvedere Hotel	McMillan, G. I.	D.R. P.H. (M&W) P.H. (M)
PELEE ISLAND	Pelee Hotel	Holtze, L. C.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
PEMBROKE	Copeland Hotel 48 Pembroke Street West	Copeland Hotel Company Ltd.	D.R. P.H. (M)
"	Leland Hotel 196 Albert Street	Needham, D. J.	D.R. P.H. (M)
"	Pembroke Hotel 200 Pembroke Street West	Teevens, J. B.	D.R. P.H. (M)
"	Windsor Hotel 147 McKay Street	Cecile, Mrs. B.	D.R. P.H. (M&W) P.H. (M)
PENETANGUISHENE	Brule Hotel Main Street	Beauchamp, N.	D.R. P.H. (M&W) P.H. (M)
"	Canada Hotel 85 Main Street	Allan, J. D. and Renton, A. E.	D.R. P.H. (M&W) P.H. (M)
PERTH	Imperial Hotel 25 Wilson Street	Lambert, E. J., Miss Mary E. and Wallace, Mrs. M. J.	D.R. P.H. (M)
"	Perth Hotel 1 Gore Street West	Duby, H. D.	D.R. P.H. (M)
"	Revere Hotel 78 Foster Street	Salisbury, S. R.	D.R. P.H. (M&W) P.H. (M)
PETERBOROUGH	Champlain Hotel 173 Charlotte Street	McGillis Hotel Company Ltd.	D.R. P.H. (M&W) P.H. (M)
"	Empress Hotel 131 Charlotte Street	Empress Hotel (Peterboro) Limited	D.R. P.H. (M&W) P.H. (M)
"	Grand Hotel 295 George Street	Emerson, L. S. and Crawford, S. B.	D.R. P.H. (M&W) P.H. (M)
"	King George Hotel 172 Simcoe Street	Keeler, F. B. and Tanner, R.	D.R. P.H. (M&W) P.H. (M)
"	Queen's Hotel 181 Simcoe Street	King, N. D. and Mrs. V. L.	D.R. P.H. (M&W) P.H. (M)
PHELPSTON	Phelpston Hotel	Kenny, D. J.	D.R. P.H. (M&W) P.H. (M)
PICKERING	Rouge Valley Inn R.R. No. 3	Griffin, Mrs. P. F.	D.R. P.H. (M&W) P.H. (M)
PICKLE CROW	Pickle Crow Hotel	Pickle Crow Hotel Limited	D.R. P.H. (M&W) P.H. (M)
PICKLE LAKE	Pickle Lake Hotel	Koval, K.	D.R. P.H. (M&W) P.H. (M)
PICTON	Globe Hotel Main Street	Cox, J. J.	D.R. P.H. (M&W) P.H. (M)
"	Royal Hotel Main Street	Healy, F. E. and E. J.	D.R. P.H. (M&W) P.H. (M)
"	Rickarton Castle Hotel	Rickarton Castle Hotel Limited	D.R. P.H. (M&W) P.H. (M)
PIGEON RIVER	Pigeon River Hotel	Hurtig, M.	D.R. P.H. (M&W) P.H. (M)
PINEWOOD	Home Hotel	Jodoin, T. J.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
Plantagenet North	Commercial Hotel	Gauthier, W. J.	D.R. P.H. (M&W) P.H. (M)
Plantagenet Springs	Union Hotel	Mayer, Mrs. S.	D.R. P.H. (M&W) P.H. (M)
Point Edward	Balmoral Hotel 123 Michigan Avenue	Mara, F. J.	D.R. P.H. (M&W) P.H. (M)
Porquis Junction	Canada Hotel	Tremblay, S.	D.R. P.H. (M&W) P.H. (M)
Port Arthur	Kimberley Hotel 191 Pearl Street	Burstrom, G.	D.R. P.H. (M&W) P.H. (M)
" "	Mariaggi Hotel 28 Water Street South	Hurtig, M.	D.R. P.H. (M&W) P.H. (M)
" "	New Ontario Hotel 219 Arthur Street	Arthur, Mrs. M.	P.H. (M&W) P.H. (M)
" "	Prince Arthur Hotel 9 Cumberland Street North	Canadian National Railways	D.R. P.H. (M&W) P.H. (M)
" "	Princess Hotel 76 South Cumberland Street	Filipovic, J.	D.R. P.H. (M&W) P.H. (M)
" "	Waverley Hotel 54 North Cumberland Street	Pasternak, William	D.R. P.H. (M&W) P.H. (M)
" "	Royalton Hotel 248 Bay Street	Baccari, Mrs. C.	D.R. P.H. (M&W) P.H. (M)
Port Colborne	Belmont Hotel King and Charlotte Streets	Holman, A. A.	D.R. P.H. (M&W) P.H. (M)
" "	Queen's Hotel 19 Omar Street	Radvilas, J.	D.R. P.H. (M&W) P.H. (M)
Port Dalhousie	Embassy Hotel	Long, L.	D.R. P.H. (M&W) P.H. (M)
" "	Port Hotel 6 Front Street	Chaikowski, D.	D.R. P.H. (M&W) P.H. (M)
Port Dover	Commercial Hotel Main Street	Shanks, H. and Manning, E. W.	D.R. P.H. (M&W) P.H. (M)
" "	Norfolk Hotel Main Street	Gamble, C. E.	D.R. P.H. (M&W) P.H. (M)
" "	Erie Beach Hotel (Summer)	Schneider, H. J.	D.R. P.H. (M&W) P.H. (M)
Port Elgin	Arlington Hotel Goderich Street	McGrath, E. T.	D.R. P.H. (M&W) P.H. (M)
" "	Queen's Hotel	McPherson, R.	D.R. P.H. (M&W) P.H. (M)
Port Hope	Ontario Hotel 30 Ontario Street	Powell, B. H.	D.R. P.H. (M&W) P.H. (M)
" "	Queen's Hotel 81 Walton Street	Targonski, S.	D.R. P.H. (M&W) P.H. (M)
" "	St. Lawrence Hotel 91 Walton Street	Halick, J.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
Port Maitland	Maitland Arms Hotel (Summer)	Murphy, A. C.	D.R. P.H. (M&W) P.H. (M)
Port Rowan	Baycliffe Hotel Main Street	Krestel, John	D.R. P.H. (M&W) P.H. (M)
" "	St. Charles Hotel Main Street	Vanthuyne, A.	D.R. P.H. (M&W) P.H. (M)
Port Severn	Bayview Hotel (Summer).	Brown, Mrs. E. M.	D.R. P.H. (M&W) P.H. (M)
Portsmouth	Lake View Manor Hotel 110 Young Street	Eves, J. C. A.	D.R. P.H. (M&W) P.H. (M)
Port Stanley	Clifton Hotel	Sturgis, C. E.	P.H. (M&W) P.H. (M)
" "	Hill Crest Inn	Shipp, Mr. and Mrs. S. P.	D.R. P.H. (M&W) P.H. (M)
" "	Plaza Hotel William Street	Kohn, S.	P.H. (M&W) P.H. (M)
" "	Why Not Hotel	Weir, Mrs. D. B.	D.R. P.H. (M&W) P.H. (M)
Powassan	Windsor Hotel	LaLonde, C. J.	D.R. P.H. (M&W) P.H. (M)
Prescott	Daniels Hotel	Korsa, N.	D.R. P.H. (M&W) P.H. (M)
"	Queen Alexandra Hotel King Street	Horan, E. T. and J. T., and White, Evelyn H.	D.R. P.H. (M&W) P.H. (M)
Preston	Central Hotel 868 King Street	Taylor, S. A. and Dawe, W. A.	P.H. (M&W) P.H. (M)
"	Commercial Hotel 991 King Street	Forler, H. G.	D.R. P.H. (M&W) P.H. (M)
"	Kress Hotel King and Fountain Streets	Graham, E. P.	D.R. P.H. (M&W) P.H. (M)
"	Sulphur Springs Hotel 240 King Street	Wexler, Jas.	D.R. P.H. (M&W) P.H. (M)
Rainy River	Canadian Northern Hotel	Popowich, W.	D.R. P.H. (M&W) P.H. (M)
Ramore	Commercial Hotel	Bienvenu, J.	D.R. P.H. (M&W) P.H. (M)
"	Ramore Hotel Railway Street	Delves, G. W.	D.R. P.H. (M&W) P.H. (M)
Red Lake	McCuaig Hotel	McCuaig (Red Lake) Hotel Company Limited	D.R. P.H. (M)
" "	Red Lake Inn	New Red Lake Hotel Company Limited	D.R. P.H. (M&W) P.H. (M)
Red Rock	Red Rock Inn	Brompton Pulp & Paper Company Limited	P.H. (M)
Ridgetown	Arlington Hotel	Siskind, J. A.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
Ridgeway	McLeod Hotel Ridge Road	Rice, P. A.	D.R. P.H. (M&W) P.H. (M)
Riverside	Edgewater Hotel 4912 Riverside Drive	Thomas' Inn Limited	D.R. P.H. (M&W) P.H. (M)
River Valley	Golden Rose Hotel Main Street	Giroux, A. J.	D.R. P.H. (M&W) P.H. (M)
Rockland	King George Hotel 143 Laurier Street	Gamelin, A.	D.R. P.H. (M&W) P.H. (M)
”	Rockland Hotel	Viau, A.	D.R. P.H. (M&W) P.H. (M)
Rosseau	Monteith Inn (Summer)	Shopsowitz, Mrs. J.	D.R. P.H. (M&W) P.H. (M)
Rossport	Rossport Inn	Anderson, O.	D.R. P.H. (M&W) P.H. (M)
Rouge Hills	Glen Eagles Manor	Chizen, M. and Bilida, J.	D.R. P.H. (M&W) P.H. (M)
Royal Muskoka Post Office	Royal Muskoka Hotel (Summer)	Muskoka Lakes Navigation and Hotel Company Limited	D.R. P.H. (M&W)
Russell	Commercial Hotel	Kiedyk, W. and Mrs. M.	D.R. P.H. (M&W) P.H. (M)
”	Russell Hotel Mill Street	Contant, Arthur	D.R. P.H. (M&W) P.H. (M)
St. Albert	Russell Hotel	Lauzon, A.	D.R. P.H. (M&W) P.H. (M)
St. Anne de Prescott	Commercial Hotel	Diotte, R.	D.R. P.H. (M&W) P.H. (M)
St. Catharines	Garden City Inn 19 James Street	Springford, R.	D.R. P.H. (M&W) P.H. (M)
” ”	International Hotel 84 James Street	Garbutt, Mrs. I. N.	D.R. P.H. (M&W) P.H. (M)
” ”	Leonard Hotel 259 St. Paul Street	St. Catharines Hotels Limited	D.R. P.H. (M&W) P.H. (M)
” ”	Lincoln Hotel 288 St. Paul Street	McConnell, Mrs. N. R.	D.R. P.H. (M&W) P.H. (M)
” ”	New Murray Hotel 58 James Street	Lachapelle, L. A.	D.R. P.H. (M&W) P.H. (M)
” ”	Queensway Hotel 8 Queenston Street	Queenston Hotels Limited	D.R. P.H. (M&W) P.H. (M)
” ”	Russell Hotel 203 St. Paul Street	O'Keefe, W.	D.R. P.H. (M&W) P.H. (M)
” ”	Welland Hotel 30 Ontario Street	Welland House Limited	D.R. P.H. (M&W) P.H. (M)
St. Charles	St. Charles Hotel	Henderson, E. E. and Mrs. B.	D.R. P.H. (M&W) P.H. (M)
St. Eugene	Windsor Hotel	Landriault, A.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
St. Isidore de Prescott	Central Hotel	Lalonde, C.	D.R. P.H. (M&W) P.H. (M)
St. Jacobs	Dominion Hotel King Street	Sieling, H. A.	D.R. P.H. (M&W) P.H. (M)
St. Joachim	St. Joachim Hotel	Rockburn, H.	D.R. P.H. (M&W) P.H. (M)
St. Onge	Commercial Hotel	Richer, John	D.R. P.H. (M&W) P.H. (M)
St. Thomas	Empire Hotel 664 Talbot Street	Watts, Mrs. W.	D.R. P.H. (M&W) P.H. (M)
” ”	Grand Central Hotel 332 Talbot Street	Hunter, H. C.	D.R. P.H. (M&W) P.H. (M)
” ”	Talbot Hotel 593 Talbot Street	Conley, Mrs. M.	P.H. (M&W) P.H. (M)
Sarnia	Colonial Hotel 156 North Christina Street	Morrison, J. F., Estate of	D.R. P.H. (M&W) P.H. (M)
”	McFee's Hotel 182 Cromwell Street	McFee, Mrs. A.	D.R. P.H. (M&W) P.H. (M)
”	Vendome Hotel 124 North Front Street	MacFarlane, G. B.	D.R. P.H. (M&W) P.H. (M)
”	Windsor Hotel 210 North Christina Street	Hotel Windsor of Sarnia Ltd.	D.R. P.H. (M&W) P.H. (M)
Sarsfield	Sarsfield Hotel	Raymond, R.	D.R. P.H. (M)
Sault Ste. Marie	Algoma Hotel 285 Queen Street East	Cohen, W. M. N.	D.R. P.H. (M&W) P.H. (M)
” ” ”	Algonquin Hotel 864 Queen Street East	Paterson, P. W.	D.R. P.H. (M&W) P.H. (M)
” ” ”	Grand View Hotel 331 Queen Street East	Brunette, F.	D.R. P.H. (M&W) P.H. (M)
” ” ”	New Ontario Hotel 89 Hudson Street	Juzwow, J.	D.R. P.H. (M&W) P.H. (M)
” ” ”	Royal Hotel 2 Queen Street East	Keenan, B. P.	D.R. P.H. (M&W) P.H. (M)
” ” ”	Windsor Hotel 615 Queen Street East	Sault Windsor Hotel Limited	D.R. P.H. (M&W) P.H. (M)
Savant Lake	Savant Hotel	Haverluck, J.	D.R. P.H. (M&W) P.H. (M)
Scarboro	Alpine Hotel 1102 Kingston Road	McLarney, W. M. and MacNamara, Mrs. F. A.	D.R. P.H. (M&W) P.H. (M)
”	White Castle Inn	White Castle Inn Limited	D.R.
Schumacher	Eldorado Hotel 12 First Avenue	Pupich, C., Jr.	D.R. P.H. (M&W) P.H. (M)
”	Emporium Hotel 20 First Avenue	Bosak, P.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
Schumacher	Grandview Hotel 40 First Avenue	Buchar, Mrs. M.	D.R. P.H. (M&W) P.H. (M)
”	Pearl Lake Hotel 53 First Avenue	Klisanich, F.	D.R. P.H. (M&W) P.H. (M)
”	Schumacher Hotel 30 First Avenue	Zupancic, J.	D.R. P.H. (M&W) P.H. (M)
”	Tisdale Hotel 54 First Avenue	Pecanic, N.	D.R. P.H. (M&W) P.H. (M)
Searchmont	Searchmont Hotel	Sundstrom, P.	D.R. P.H. (M&W) P.H. (M)
Selkirk	Union Hotel Main and Erie Streets	Cole, H. M.	D.R. P.H. (M&W) P.H. (M)
Shannonville	Wayside Inn	Ryan, Mrs. Z. H. and Power, Miss M.	D.R. P.H. (M&W) P.H. (M)
Shebandowan	McKinnon's Inn	McKinnon, Mrs. M. B.	D.R. P.H. (M&W) P.H. (M)
Simcoe	Battersby Hotel 13 Robinson Street	Peer, H. E.	D.R. P.H. (M&W) P.H. (M)
”	Governor Simcoe Hotel 413 Norfolk Street North	Leask, F. A.	D.R. P.H. (M&W) P.H. (M)
”	Melbourne Hotel 39 Robinson Street	Challenger, D. R. and C. E.	P.H. (M&W) P.H. (M)
”	Norfolk Hotel 41 Norfolk Street	Dumsha, J.	D.R. P.H. (M&W) P.H. (M)
Sioux Lookout	Clarke's Hotel 62 Front Street	Clarke, Mrs. A.	P.H. (M&W) P.H. (M)
” ”	Lakeview Hotel 48 Front Street	Spence, A. T.	D.R. P.H. (M)
Sioux Narrows	Sioux Narrows Hotel (Summer)	Anderson, E. C.	D.R. P.H. (M)
Smiths Falls	Arlington Hotel 21 Beckwith Street	Hurst, W. C. and Walker, N. J.	D.R. P.H. (M)
” ”	Lee Hotel 72 Daniel Street	Lee, G. J.	D.R. P.H. (M&W) P.H. (M)
” ”	Rideau Hotel 20 Beckwith Street	Powers, Mrs. A.	D.R. P.H. (M&W) P.H. (M)
” ”	Russell Hotel 2 Beckwith Street	Russell Hotel (Smiths Falls) Limited	D.R. P.H. (M&W) P.H. (M)
Smooth Rock Falls	Elite Hotel	Philipchuk, Mrs. E. and Robokon, S.	D.R. P.H. (M&W) P.H. (M)
” ” ”	Union Hotel	Belanger, J. A.	D.R. P.H. (M&W) P.H. (M)
Southampton	Southampton Hotel	Smith, L. A.	D.R. P.H. (M&W) P.H. (M)
”	Walker Hotel High Street	Mahon, H.	D.R. P.H. (M&W) P.H. (M)
South Porcupine	Airport Hotel Bruce Avenue	Moskal, W.	D.R. P.H. (M&W) P.H. (M)

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South Porcupine	Empress Hotel 89 Bruce Avenue	Cecconi, A., L. and B.	D.R. P.H. (M&W) P.H. (M)
” ”	Goldfield's Hotel 136 Golden Avenue	Krasevac, A.	D.R. P.H. (M&W) P.H. (M)
South River	Queen's Hotel	Percival, T. A.	D.R. P.H. (M&W) P.H. (M)
Spanish Station	Huron Hotel	Ferris, M. E.	D.R. P.H. (M&W) P.H. (M)
Spencerville	Spencerville Hotel	Reddick, G. W.	D.R. P.H. (M&W) P.H. (M)
Springfield	Glenn-Rite Hotel Main Street	Annett, L. G.	D.R. P.H. (M&W) P.H. (M)
Stamford	Red Casque Inn St. Paul Avenue	Holman, A. A.	D.R. P.H. (M&W) P.H. (M)
”	Uncle Sam's Hotel R.R. No. 1, Lundy's Lane	Manos, H.	D.R. P.H. (M&W) P.H. (M)
Stanley	Stanley Hotel	Smith, Clinton & Clifton	D.R. P.H. (M&W) P.H. (M)
Stevensville	Commercial Hotel R.R. No. 2, Snyder	Willick, Mrs. R. E.	D.R. P.H. (M&W) P.H. (M)
Stoco	Ontario House Hotel	Hughes, G. B.	D.R. P.H. (M&W) P.H. (M)
Stonecliff	Stonecliff Hotel	McKechnie, A.	D.R. P.H. (M&W) P.H. (M)
Stratford	Empire Hotel	Dyke, A. E.	D.R. P.H. (M&W) P.H. (M)
”	Kent Hotel	Graham, Mrs. O. M. and W. H.	D.R. P.H. (M&W) P.H. (M)
”	Mansion Hotel 101 Wellington Street	Estate of J. H. Killer	D.R. P.H. (M&W) P.H. (M)
”	Queen's Hotel 161 Ontario Street	Pinkney, D. McG.	D.R. P.H. (M&W) P H. (M)
”	Windsor Hotel 23 Albert Street	Litt, J. W.	D.R. P.H. (M&W) P.H. (M)
Stratton	Stratton Hotel	Landry, E.	D.R. P.H. (M&W) P.H. (M)
Sturgeon Falls	Chalfonte Hotel King Street	Boyer, E. D.	D.R. P.H. (M&W) P.H. (M)
” ”	Queen's Hotel Main Street	Dompierre, W. E.	D.R. P.H. (M&W) P.H. (M)
” ”	Windsor Hotel	Estate of Mrs. H. Chaput	D.R. P.H. (M&W) P.H. (M)
Sudbury	Balmoral Hotel 2 Elm Street East	Balmoral Hotel Company of Sudbury Limited	P.H. (M)
”	Coulson Hotel 68 Durham Street	Hotel Coulson Limited	P.H. (M&W) P.H. (M)
”	Frontenac Hotel 14 Durham Street North	Davis, C. and Estate of A. Turpin	P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
SUDBURY	King Edward Hotel 88 Elgin Street	Johnson, C.	D.R. P.H. (M&W) P.H. (M)
"	New Queen's Hotel 18 Borgia Street	Riddell Estates Limited	P.H. (M&W) P.H. (M)
"	Nickel Range Hotel 10 Elm Street West	Nickel Range Hotel (Sudbury) Limited	D.R. P.H. (M&W) P.H. (M)
"	Sudbury Hotel 300 Elgin Street	Moses, H.	P.H. (M)
SUNDRIDGE	Bernard Hotel Main Street	Caswell, D. J.	D.R. P.H. (M&W) P.H. (M)
SUTTON	Mansion Hotel	Jamieson, S. J.	D.R. P.H. (M&W) P.H. (M)
SWASTIKA	Swastika Hotel	Boisvert, J.	D.R. P.H. (M&W) P.H. (M)
TAMWORTH	Queen's Hotel	Davison, R. H.	D.R. P.H. (M&W) P.H. (M)
TAVISTOCK	Arlington Hotel	Millington, E.	D.R. P.H. (M&W) P.H. (M)
"	Oxford Hotel Woodstock Street	Liebler, A. E.	D.R. P.H. (M&W) P.H. (M)
TECUMSEH	Golden Hotel 61 Tecumseh Road	Pitre, A. P.	D.R. P.H. (M&W) P.H. (M)
TEMAGAMI	Goddard's Place Hotel Highway No. 11	Goddard, E. F.	D.R. P.H. (M&W) P.H. (M)
"	Ronnoco Hotel (Summer)	Ontario Northland Transportation Commission	D.R. P.H. (M&W) P.H. (M)
THAMESVILLE	Tecumseh Hotel	Walters, C. E.	D.R. P.H. (M&W) P.H. (M)
THEDFORD	Holwell Hotel Main Street	Powell, G. H.	D.R. P.H. (M&W) P.H. (M)
THESSALON	O'Connor Hotel Main Street	Luhta, Wm .and Mitchell, Lorne.	D.R. P.H. (M&W) P.H. (M)
"	Sinton Hotel Main Street	Sinton, S. M.	D.R. P.H. (M&W) P.H. (M)
THOROLD	Thorold Inn 54 Front Street	Kekic, P.	D.R. P.H. (M&W) P.H. (M)
"	Welland Hotel 46 Front Street	Shanks, M. L.	D.R. P.H. (M&W) P.H. (M)
TILBURY	Empire Hotel	Estate of Barnaby Ballard	D.R. P.H. (M&W) P.H. (M)
TILLSONBURG	Arlington Hotel Broadway Street	Kohl, C. W.	D.R. P.H. (M&W) P.H. (M)
"	Imperial Hotel 30 Broadway Street	Grant, Chas. E.	D.R. P.H. (M&W) P.H. (M)
"	Royal Hotel 11 Broadway Street	Hahn, G. K.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
TIMMINS	Albert's Hotel 52 Mountjoy Street South	Leone, G. and Teidermann, Wm.	D.R. P.H. (M&W) P.H. (M)
"	Empire Hotel Spruce Street and Fourth Avenue	Empire Hotel Company of Timmins Limited	D.R. P.H. (M&W) P.H. (M)
"	G. V. Hotel 94 Sixth Avenue	Varteniuk, G.	D.R. P.H. (M&W) P.H. (M)
"	Lady Laurier Hotel 34 Second Avenue	Lady Laurier Hotel Limited	D.R. P.H. (M&W) P.H. (M)
"	Maple Leaf Hotel 8 Balsam Street South	Kotze, P.	D.R. P.H. (M&W) P.H. (M)
"	St. Charles Hotel 16 Cedar Street South	Vaillancourt, N., Lyrette, G. and Robillard, A.	D.R. P.H. (M&W) P.H. (M)
"	Timmins Hotel 56 Fourth Avenue	Orr, Mrs. A.	D.R. P.H. (M&W) P.H. (M)
"	Windsor Hotel 8 Cedar Street South	Windsor Hotel (Timmins) Ltd.	D.R. P.H. (M&W) P.H. (M)
TORONTO	Bloor Hotel 1313 Bloor Street West	Sparkes, R. P.	D.R. P.H. (M&W) P.H. (M)
"	Barclay Hotel 174 Front Street West	Front and Simcoe Limited	D.R. P.H. (M&W) P.H. (M)
"	Danforth Hotel 2763 Danforth Avenue	Danforth Hotel Company Ltd.	D.R. P.H. (M&W) P.H. (M)
"	Edgewater Hotel 10 Roncesvalles Avenue	Onazuk, M., Dimitroff, C. and Harris, A.	D.R. P.H. (M&W) P.H. (M)
"	Edison Hotel 1 Gould Street	Edison Hotel Limited	D.R. P.H. (M&W) P.H. (M)
"	Edwin Hotel 650 Queen Street East	Saltzman, S. and Sher, D.	D.R. P.H. (M&W) P.H. (M)
"	Elliott Hotel 63 Shuter Street	Elliott Hotel Limited	D.R. P.H. (M&W) P.H. (M)
"	Ford Hotel 595 Bay Street	Ford Hotel Company of Toronto Limited	P.H. (M&W) P.H. (M)
"	Gladstone Hotel 1214 Queen Street	Gladstone Hotel Limited	D.R. P.H. (M&W) P.H. (M)
"	Grovenor Hotel 491 Yonge Street	Hemstead, C.	D.R. P.H. (M&W) P.H. (M)
"	Isabella Hotel 556 Sherbourne Street	Estate of K. B. Heisey	P.H. (M&W) P.H. (M)
"	King Edward Hotel 37 King Street, East	King Edward Hotel (Toronto) Limited	D.R. P.H. (M&W) P.H. (M)
"	Metropole Hotel 141 King Street West	Atlas Hotel Company Limited.	D.R. P.H. (M&W) P.H. (M)
"	Municipal Hotel 67 Queen Street West	Mintz, I.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
TORONTO	New Statler Hotel 112 Queen Street West	Variety Hotels Limited	D.R. P.H. (M&W) P.H. (M)
"	Parkdale Hotel 1302 Queen Street, West	McDonald, J. G., H. E. Mathias, Misses M. E. and K. M. and Calvert, Mrs. E.	D.R. P.H. (M&W) P.H. (M)
"	Park Plaza Hotel 170 Bloor Street, West	Park Plaza Corporation Limited	D.R. P.H. (M&W) P.H. (M)
"	Prince George Hotel 91 York Street	Model Hotel Company Limited	D.R. P.H. (M&W) P.H. (M)
"	Rex Hotel 3 St. Patrick Street	Hertzman, L.	D.R. P.H. (M&W) P.H. (M)
"	Royal Cecil Hotel 202 Jarvis Street	Dufferin Construction Company Limited	D.R. P.H. (M) P.H. (W)
"	Royal York Hotel 100 Front Street	Canadian Pacific Railway Co.	D.R. P.H. (M&W) P.H. (M)
"	St. Regis Hotel 392 Sherbourne Street	St. Regis Hotel Limited	D.R. P.H. (M&W) P.H. (M)
"	Spadina Hotel 460 King Street West	Spadina Realty Company Ltd.	D.R. P.H. (M&W) P.H. (M)
"	Victoria Hotel 56 Yonge Street	Victoria Hotel (Toronto) Ltd.	D.R. P.H. (M&W) P.H. (M)
"	Walker House Hotel 121 Front Street West	Walker House Hotel Company Limited	D.R. P.H. (M&W) P.H. (M)
"	Walsingham Hotel 321 Jarvis Street	Freeman, A. R.	D.R. P.H. (M) P.H. (W)
"	Waverley Hotel 482 Spadina Avenue	Waverley Hotel Limited	D.R. P.H. (M)
"	Westminster Hotel 240 Jarvis Street	Westminster Realty Company Limited	D.R. P.H. (M)
"	Westmorland Hotel 254 Jarvis Street	Westmorland Hotel Limited	D.R. P.H. (M) P.H. (W)
"	Winchester Hotel 537 Parliament Street	Wilson, G. A.	D.R. P.H. (M&W) P.H. (M)
TOTTENHAM	Maple Leaf Hotel	Roche, C. A. and Hurst, Mrs. M. H.	D.R. P.H. (M&W) P.H. (M)
TRENTON	Gilbert Hotel 50 Dundas Street West	Kerr, J. A.	D.R. P.H. (M&W) P.H. (M)
"	Quinte Hotel 19 Murphy Street	Orrill, J.	D.R. P.H. (M&W) P.H. (M)
"	Royal Hotel 47 Dundas Street East	Sage Enterprises Limited	D.R. P.H. (M&W) P.H. (M)
TROUT CREEK	Evers Hotel	Evers, H.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
TROUT MILLS	White House Lodge	White, Mrs. D. M.	D.R. P.H. (M&W) P.H. (M)
UPSALA	Upsala Inn	Nickelson, J. W.	D.R. P.H. (M&W) P.H. (M)
VAL GAGNE	National Hotel	Sancartier, Mrs. M.	D.R. P.H. (M&W) P.H. (M)
VANKLEEK HILL	Windsor Hotel	St. Denis, P.	D.R. P.H. (M&W) P.H. (M)
VERMILION BAY	Bayview Hotel	Brown, R. D.	D.R. P.H. (M&W) P.H. (M)
VERNER	Commercial Hotel Main Street	Lachapelle, E.	D.R. P.H. (M&W) P.H. (M)
VIENNA	New Vienna Hotel	Shelson, R.	D.R. P.H. (M&W) P.H. (M)
VIRGINIATOWN	McGarry Hotel Webster Street	Hotel McGarry Limited	D.R. P.H. (M&W) P.H. (M)
WABIGOON	King Edward Hotel Main Street	Stanford, C. R.	D.R. P.H. (M&W) P.H. (M)
WAHNAPITAE	Grand Union Hotel Hill Street	Marotta, F.	D.R. P.H. (M&W) P.H. (M)
WALFORD	Wilson's Resort (Summer)	Wilson, W. G.	D.R. P.H. (M&W) P.H. (M)
WALKERTON	Hartley Hotel	Schmalz, C. P.	D.R. P.H. (M&W) P.H. (M)
"	Queen's Hotel Jackson and Scott Streets	Wood, H.	D.R. P.H. (M&W) P.H. (M)
WALLACEBURG	Tecumseh Hotel 52 Duncan Street	Estate of A. J. Mahoney	D.R. P.H. (M&W) P.H. (M)
"	Wallaceburg Hotel Wallace Street	Hunter, H. C.	D.R. P.H. (M&W) P.H. (M)
WARDSVILLE	Wardsville Inn Main Street	Muir, T. A.	D.R. P.H. (M&W) P.H. (M)
WARREN	Globe Hotel	Boucher, H. F.	D.R. P.H. (M&W) P.H. (M)
WASAGA BEACH	Allistonia Hotel (Summer) River Street	Sandy Beach Hotels Limited	D.R. P.H. (M&W) P.H. (M)
" "	Nottawa Inn (Summer)	Nottawa Inn Limited	D.R. P.H. (M&W) P.H. (M)
WATERDOWN	Kirk Hotel Main and Dundas Streets	Kirk, Mrs. A. I., M.A. and J. L.	D.R. P.H. (M&W) P.H. (M)
WATERLOO	Kent Hotel 59 King Street North	Snyder, A. C.	D.R. P.H. (M&W) P.H. (M)
"	Waterloo Hotel 4 King Street North	Chadder, S. J.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
WATFORD	Roche Hotel Main Street	Sproule, G. E.	D.R. P.H. (M&W) P.H. (M)
”	Watford Inn	Hobbs, Mrs. S. A.	D.R. P.H. (M&W) P.H. (M)
WAWA	Lakeview Hotel	Lakeview Hotel (Wawa) Ltd.	D.R. P.H. (M&W) P.H. (M)
WEBBWOOD	Windsor Hotel	Dennie, F. J., Jr.	D.R. P.H. (M&W) P.H. (M)
WELLAND	Colonial Hotel 300 King Street	Estate of Mrs. C. Cutaia	D.R. P.H. (M&W) P.H. (M)
”	Commercial Hotel 62 King Street	Sher, D. and Saltzman, S.	D.R. P.H. (M&W) P.H. (M)
”	Dexter Hotel 69 Main Street East	Cooper, J. W.	D.R. P.H. (M&W) P.H. (M)
”	Reeta Hotel 90 Main Street East	Hotel Reeta Limited	D.R. P.H. (M&W) P.H. (M)
”	Welland Hotel 3 Niagara Street	Kunda, J. and Mrs. S.	D.R. P.H. (M&W) P.H. (M)
WELLESLEY	Royal Hotel Queen and William Streets	Pirce, L.	D.R. P.H. (M&W) P.H. (M)
WENDOVER	Wendover Hotel	Viau, Joseph	D.R. P.H. (M&W) P.H. (M)
WESTPORT	Lexena Hotel	Roberts, H. H.	D.R. P.H. (M&W) P.H. (M)
”	Westport Inn	Garrod, F.	D.R. P.H. (M&W) P.H. (M)
WHITBY	Royal Hotel 171 Brock Street North	Rosseau, Mrs. R. A. and A. L.	D.R. P.H. (M&W) P.H. (M)
WHITEFISH	Penage Hotel High Street	Falzetta, P.	D.R. P.H. (M&W) P.H. (M)
WHITEFISH FALLS	Whitefish Falls Hotel	White, S. J.	D.R. P.H. (M&W) P.H. (M)
WHITE RIVER	Green Gables Hotel	Bracci, Mrs. L.	D.R. P.H. (M&W) P.H. (M)
WIARTON	Arlington Hotel Berford Street	Taylor, C. L.	D.R. P.H. (M&W) P.H. (M)
”	Pacific Hotel Berford Street	Walker, A. G. and R. A.	D.R. P.H. (M&W) P.H. (M)
WILLIAMSBURG	Locketon Lodge Hotel	Robert, E.	D.R. P.H. (M&W) P.H. (M)
WILNO	Exchange Hotel	Shulist, Mrs. E.	D.R. P.H. (M)
WINDSOR	British American Hotel 6-14 Sandwich Street East	Doumani, E. M.	D.R. P.H. (M&W) P.H. (M)
”	Norton Palmer Hotel 130 Park Street, West	Norton Palmer Hotel Limited	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
Windsor	Prince Edward Hotel 380 Ouellette Avenue	Prince Edward Hotel (Windsor) Limited	D.R. P.H. (M&W) P.H. (M)
Winona	Inns of Innsville	Kyriakopulos, G.	D.R. P.H. (M&W) P.H. (M)
Wolfe Island	Island Hotel	Johnson, M. V.	D.R. P.H. (M)
Woodbridge	Elm's Hotel Pine Street	Briggs, W. B., Jr.	D.R. P.H. (M&W) P.H. (M)
Woodstock	New Commercial Hotel 15 Graham Street	New Commercial Hotel Company (McIntosh, Mrs. R. Tulloch, Mrs. B. I., and Jupp, Miss D. S.)	D.R. P.H. (M&W) P.H. (M)
"	Oxford Hotel 28 Finkle Street	Reid, R. H.	D.R. P.H. (M&W) P.H. (M)
"	Royal Hotel 400 Dundas Street	Royal Hotel of Woodstock Ltd.	D.R. P.H. (M&W) P.H. (M)
York Township	Oakwood Hotel 489 Oakwood Avenue	Oakwood Hotel Limited	D.R. P.H. (M&W) P.H. (M)
Young's Point	South Beach Hotel (Summer)	Lawlor, T. J. and L. K.	D.R. P.H. (M&W) P.H. (M)

SCHEDULE No. 11

TAVERNS

Municipality	Name of Establishment	Name of Owner	Type of Licences
AMHERSTBURG	Anderdon Tavern R.R. No. 3	Travica, S.	D.R. P.H. (M&W) P.H. (M)
BLAIR	Nicholson Tavern	Nicholson, Mrs. I. M.	D.R. P.H. (M&W) P.H. (M)
BURLINGTON	Brant Inn Tavern Water Street	Kendall, C. H. and Anderson, J. M.	D.R. P.H. (M&W) P.H. (M)
"	Estaminet Tavern 50 Water Street	Byrens, Mrs. E. M.	D.R. P.H. (M&W) P.H. (M)
CRYSTAL BEACH	Hebert Tavern Ridge Road	Hebert, W. O.	D.R. P.H. (M&W) P.H. (M)
ETOBICOKE	Old Mill Tavern 35 Old Mill Road (Toronto 9)	Valley Improvement Company Limited	D.R.
FORT ERIE	Niagara Tavern 92 Niagara Boulevard	Kee, W.	D.R. P.H. (M&W) P.H. (M)
HAMILTON	Avon Tavern 912 Barton Street East	Hammer, F. W.	D.R. P.H. (M&W) P.H. (M)
"	Green's Tavern R.R. No. 1	Greene, J. J.	D.R. P.H. (M&W) P.H. (M)
"	Hanrahan Tavern 92 Barton Street East	Hanrahan, J. J.	D.R. P.H. (M&W) P.H. (M)
"	Jockey Club Tavern 1091 Barton Street East	Kretschman, J. H. R.	D.R. P.H. (M&W) P.H. (M)
"	Prince Edward Tavern 737 Barton Street East	Estate of F. Gral	D.R. P.H. (M&W) P.H. (M)
"	Queen's Tavern 180 Ottawa Street	Fleming, A. J.	D.R. P.H. (M&W) P.H. (M)
"	Regal Tavern 152 King Street West	Smith, J. G.	D.R. P.H. (M&W) P.H. (M)
"	Stafford Tavern 52 Charles Street	Myatt, W. J.	D.R. P.H. (M&W) P.H. (M)
HAMILTON BEACH	New Dynes Tavern 337 Beach Boulevard	Wiwchar, M.	D.R. P.H. (M&W) P.H. (M)
HAWKESBURY	Bridge Inn Tavern 141 Main Street West	Montpetit, O.	D.R. P.H. (M&W) P.H. (M)
HUMBER BAY	Hollywood Tavern Queen and Wesley Streets	Gentile, F.	D.R. P.H. (M&W) P.H. (M)
HUMBERSTONE	Western Tavern 129 Main Street	Reeb, W. G.	D.R. P.H. (M&W) P.H. (M)
ISLINGTON	Six Points Tavern 5179 Dundas Street West	H. F. Fleury Company Limited	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
Lambton	Lambton Tavern 4062 Dundas Street West	Thomson, C. P. and Frazer, R. G.	D.R. P.H. (M&W) P.H. (M)
LaSalle	Sunnyside Tavern	Terpenkis, D. and Rezler, A.	D.R. P.H. (M&W) P.H. (M)
London	Ridout Tavern 346 Ridout Street	Kelly, B. L.	D.R. P.H. (M&W) P.H. (M)
"	Victoria Tavern 466 Ottaway Avenue	Ginsberg, H.	D.R. P.H. (M&W) P.H. (M)
Merritton	Merritton Tavern 157 Merritt Street	Ricci, Mrs. D.	D.R. P.H. (M&W) P.H. (M)
Newtonbrook	Algonquin Tavern	Zayats, A. and Zaraska, W.	D.R. P.H. (M&W) P.H. (M)
Niagara Falls	Caverly Tavern 816 Bridge Street	Badovinac, E.	D.R. P.H. (M&W) P.H. (M)
" "	Park Tavern (Summer) Queen Victoria Park	Niagara Parks Commission	D.R.
" "	Rapids Tavern 67 River Road	Pepe, J.	D.R. P.H. (M&W) P.H. (M)
Oakville	Oakville Tavern	Busk, N. O.	D.R. P.H. (M&W) P.H. (M)
Oshawa	Queen's Tavern 67 Simcoe Street West	McTaggart, Mrs. G. M.	D.R. P.H. (M&W) P.H. (M)
Ottawa	Rideau Tavern 191 Rideau Street	Viau, O.	D.R. P.H. (M&W) P.H. (M)
Point Alexander	Byeways Lodge Tavern	Dawson, G. B. and Mrs. Gladys, and Astley, Mrs. E. E.	D.R.
Port Colborne	Commercial Tavern 240 West Street	Shibley, J. H.	D.R. P.H. (M&W) P.H. (M)
Preston	Queen's Tavern 1102 King Street West	Schmalz, A. J.	D.R. P.H. (M&W) P.H. (M)
Riverside	Island View Tavern 3342 Riverside Drive	Island View Hotel Company Limited	D.R. P.H. (M&W) P.H. (M)
"	Menard's Tavern 196 Riverdale Avenue	Menard, Mrs. V.	D.R. P.H. (M&W) P.H. (M)
"	Rendezvous Tavern 7324 Riverside Drive	Vuicic, G.	D.R. P.H. (M&W) P.H. (M)
St. Catharines	Mansion Tavern 5 William Street	Mansion Hotel (St. Catharines) Limited	D.R. P.H. (M&W) P.H. (M)
St. Thomas	Scott's Tavern 755 Talbot Street	Scott, Mrs. D.	D.R. P.H. (M&W) P.H. (M)
Sandwich East	Canada Tavern 5923 Tecumseh Road	Dengel, Mrs. K.	D.R. P.H. (M&W) P.H. (M) P.H. (W)
" "	Lappan Tavern 1101 Walker Road	Lappan, R. J.	D.R. P.H. (M&W) P.H. (M)
Sandwich West	Elmwood Tavern 4000 Dougall Road	Elmwood Hotel Limited	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
SAULT STE. MARIE	International Tavern 141 Huron Street	Signoretti, A.	D.R. P.H. (M&W) P.H. (M)
" " "	Lock City Tavern 874 Queen Street East	Manchulenko, Metro	P.H. (M&W) P.H. (M)
" " "	New Toronto Tavern 193 James Street	Culina, J.	D.R. P.H. (M&W) P.H. (M)
STONEY CREEK	Da-Nite Tavern	Geekie, W.	D.R. P.H. (M&W) P.H. (M)
" "	Jess Tavern	Jess, C. T.	D.R. P.H. (M&W) P.H. (M)
" "	Pines Tavern 145 Lake Avenue	Phoenix, W. E. and Mrs. W. E.	D.R. P.H. (M&W) P.H. (M)
SUDBURY	National Tavern 477 Notre Dame Street	Cayen, Joseph N.	D.R. P.H. (M&W) P.H. (M)
"	New Ontario Tavern 206 Elgin Street	Ghiandoni, E.	D.R. P.H. (M&W) P.H. (M)
TECUMSEH	Paris Tavern 25 Tecumseh Road	Laramie, L.	D.R. P.H. (M&W) P.H. (M)
"	Tecumseh Tavern 10 Tecumseh Road West	Hebert, W. A.	D.R. P.H. (M&W) P.H. (M)
TORONTO	Angelo's Tavern 144 Chstnut Street	Belfanti, A.	D.R.
"	Babloor Tavern 1165 Bay Street	Crooks, G. L.	D.R. P.H. (M&W) P.H. (M)
"	Breadalbane Tavern 2-8 Breadalbane Street	Breadalbane Hotel Limited	D.R. P.H. (M&W) P.H. (M)
"	Chateau Dufferin Tavern 1655 Dufferin Street	Chateau Dufferin Limited	D.R. P.H. (M&W) P.H. (M)
"	Derby Tavern 393 King Street East	Derby Hotel (Toronto) Limited	D.R. P.H. (M&W) P.H. (M)
"	De France Tavern 30 Hayden Street	Hrytzko, M. and Korenowsky, W.	D.R. P.H. (M&W) P.H. (M)
"	Embassy Tavern 7 Bellair Street	Embassy Club Limited	D.R. P.H. (M&W) P.H. (M)
"	Eton Tavern 710 Danforth Avenue	Heffering, H.	D.R. P.H. (M&W) P.H. (M)
"	Forbes Tavern 72 Shuter Street	Forbes, J. D.	D.R. P.H. (M&W) P.H. (M)
"	Gregory Tavern 17 Adelaide Street West	Hotel Gregory Limited	D.R. P.H. (M&W) P.H. (M)
"	Hunt's Savarin Tavern 336 Bay Street	Hunt's Limited	D.R. P.H. (M&W) P.H. (M)
"	LaSalle Tavern 1215 Bloor Street West	Ryan, F. and Mrs. K.	D.R. P.H. (M&W) P.H. (M)
"	Morrissey Tavern 817 Yonge Street	Morrissey, W. F.	D.R. P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
TORONTO	National Tavern 249 King Street East	Merrydew, G.	D.R. P.H. (M&W) P.H. (M)
”	Orchard Park Tavern 1684 Queen Street East	General Hotel Company Ltd.	D.R. P.H. (M&W) P.H. (M)
”	Oxford Tavern 30 King Street West	Ticonic Corporation Limited	D.R. P.H. (M&W) P.H. (M)
”	Rondun Tavern 2238 Dundas Street West	Dennie, J. M., E. F., L. N., C.A., and Thorndike, J. S. Sr., J. S. Jr., and R.	D.R. P.H. (M&W) P.H. (M)
”	Scholes Tavern 203 Yonge Street	Hotel Albert Limited	D.R. P.H. (M&W) P.H. (M)
”	Victory Tavern 418 Bay Street	Assaf, W. E. and Mrs. E.	D.R. P.H. (M&W) P.H. (M)
”	Village Tavern 51 Elm Street	Bay-Elm Plaza Limited	P.H. (M&W) P.H. (M) D.R.
”	Wembley Tavern 2301 Danforth Avenue	Firestone, W. and Abroms, L.	D.R. P.H. (M&W) P.H. (M)
”	Ye Olde Tavern 358 Bay Street	Ye Olde Tavern Hotel Limited	D.R. P.H. (M&W) P.H. (M)
TRENTON	New St. James Tavern 101 Murray Street	High, A. W.	D.R. P.H. (M&W) P.H. (M)
WINDSOR	Europe Tavern 1638 Drouillard Road	Bulat, P.	D.R. P.H. (M&W) P.H. (M)
”	Lido Venice Tavern 3885 Sandwich Street West	Trumble, L.	D.R. P.H. (M&W) P.H. (M)
”	Metropole Tavern 917 Walker Road	Metropole Hotel (Windsor) Limited	D.R. P.H. (M&W) P.H. (M)
”	Plaza Arms Tavern 79 Pitt Street West	Plaza Arms Limited	D.R. P.H. (M&W) P.H. (M)
”	Royal Oak Tavern 3260 Sandwich Street West	Demic, S. and Kovarbasic, D.	D.R. P.H. (M&W) P.H. (M)
”	St. Clair Tavern 66 Wyandotte Street East	Sukunda, E.	D.R. P.H. (M&W) P.H. (M)

Schedule No. III

PUBLIC HOUSES

Municipality	Name of Establishment	Name of Owner	Type of Licences
AMHERSTBURG	Lucier's Public House R.R. No. 1	Lucier, D.	P.H. (M&W) P.H. (M)
ANSONVILLE	Capitol Public House	Purificati, D.	P.H. (M&W) P.H. (M)
"	Union Public House Railway Street	Cousineau, T. and Lemire, A.	P.H. (M&W) P.H. (M)
ARTHUR	Queen's Public House	Heffernan, D. A.	P.H. (M&W) P.H. (M)
BELLE RIVER	Alexander Beach Grove Public House R.R. No. 1 (Maidstone Township)	Carriere, A.	P.H. (M&W) P.H. (M)
" "	Belle River Public House Main Street	Parent, C. J.	P.H. (M&W) P.H. (M)
" "	Cooper Court Public House	Kiel, Emil	P.H. (M&W) P.H. (M)
" "	King George Public House Main Street	George, J.	P.H. (M&W) P.H. (M)
" "	Wellington Public House	Tomich, D.	P.H. (M&W) P.H. (M)
BLEZARD VALLEY	Blezard Public House	Dennie, G.	P.H. (M&W) P.H. (M)
BRANTFORD	Alpine Public House 20 Dalhousie Street	Reid, G. A. and Hodges, Thos.	P.H. (M&W) P.H. (M)
"	New Benwell Public House 187 Market Street	Markovich, M. L.	P.H. (M&W) P.H. (M)
"	Prince Edward Public House 16 Colborne Street	Howarth, A.	P.H. (M&W) P.H. (M)
"	St. Julien Public House 239 Market Street	Wood, Miss E.	P.H. (M)
"	Strand Public House 97 Dalhousie Street	Craise, R. A.	P.H. (M&W) P.H. (M)
BRIDGEPORT	Lancaster Public House	Querine, F.	P.H. (M&W) P.H. (M)
BRIGHT	Arlington Public House	Moss, C. H.	P.H. (M&W) P.H. (M)
BROCKVILLE	Clifton Public House 220 King Street West	O'Connor, Mrs. M. H.	P.H. (M&W) P.H. (M)
"	Commercial Public House 214 King Street West	Archinal, J.	P.H. (M)
BURLINGTON	Coronation Public 25 Brant Street	Kozak, M.	P.H. (M&W) P.H. (M)
CACHE BAY	Cache Bay Public House Railway Street	Arcand, J.	P.H. (M&W) P.H. (M)
CHATHAM	Aberdeen Public House 1 Grand Avenue	Martin, J. C.	P.H. (M&W) P.H. (M)
"	East End Public House 119 King Street East	Obradovic, J. and Raguz, S.	P.H. (M&W) P.H. (M)
"	Montreal Public House 179 Grand Avenue West	Campbell, H. C.	P.H. (M&W) P.H. (M)
"	Park View Public House 35 William Street North	Prince, E. A.	P.H. (M&W) P.H. (M)
"	Tecumseh Public House 342 Queen Street	Morgan, R	P.H. (M&W) P.H. (M)
CHIPPAWA	Chippawa Public House 18 Main Street	Kolacznski, K.	P.H. (M&W) P.H. (M)
CLARENCE CREEK	Union Public House	Gagnon, A.	P.H. (M&W) P.H. (M)
COBOURG	Homelike Public House 205 Third Street	Kelly, G. H.	P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
Cochrane	Anderson Public House 179 Fourth Avenue	Thiboutot, F. X.	P.H. (M&W) P.H. (M)
"	London Public House Railway Street	Chamandy, Mrs. F.	P.H. (M&W) P.H. (M)
Cornwall	Carleton Public House 33 First Street East	Runions, Mrs. M. E.	P.H. (M&W) P.H. (M)
"	Central Public House 341 Pitt Street	Miller, J.	P.H. (M&W) P.H. (M)
"	Grand Public House 440 Water Street East	Miron, A. D.	P.H. (M&W) P.H. (M)
"	National Public House 830 Second Street West	Humans, M.	P.H. (M&W) P.H. (M)
"	St. Lawrence Public House 900 Montreal Road	Fox, Geo. and Mrs. E., and Sheedy, B.	P.H. (M&W) P.H. (M)
Crysler	Russell Public House Charles Street	Dutt, J. J.	P.H. (M&W) P.H. (M)
Crystal Beach	Lincoln Public House 5-7 Lincoln Road East	Buck, E. A.	P.H. (M&W) P.H. (M)
" "	Markcity Public House 7 Cambridge Street East	Berezowsky, W.	P.H. (M&W) P.H. (M)
" "	Sheehan's Terrace Public House 41 Terrace Lane	Mulligan, Edward	P.H. (M&W) P.H. (M) P.H. (W)
Delhi	Delhi Public House 147 Main Street	Wardell, H. and Caswell, H. L.	P.H. (M&W) P.H. (M)
Dunnville	Royal Public House Maple Street	Casey, R. J. and T. J.	P.H. (M&W) P.H. (M)
East York	Wallace Public House 302 O'Connor Drive	Overholt, Harold F.	P.H. (M&W) P.H. (M)
Elmira	Central Public House 30 Arthur Street	Mailloux, W. E.	P.H. (M&W) P.H. (M)
Englehart	Clifton Public House Third Street	Korman, D.	P.H. (M&W) P.H. (M)
Ferris West	Algonquin Public House	Dugas, W. W.	P.H. (M&W) P.H. (M)
Foleyet	Gold Belt Public House	Mageau, F.	P.H. (M&W) P.H. (M)
Formosa	Formosa Public House	Opperman, A. M.	P.H. (M&W) P.H. (M)
Fort Erie	Erie Lane Public House 33 Princess Street	Wlaydka, W. and Rozko, M.	P.H. (M&W) P.H. (M)
" "	G.T.R. Public House 366 Gilmore Road	Karpiniec, J.	P.H. (M&W) P.H. (M)
Fort Erie North	Barnea Public House 28 Courtwright Street	Dancy, R. P.	P.H. (M&W) P.H. (M)
" " "	Merview Public House 56 Courtwright Street	Compton, M.	P.H. (M&W) P.H. (M)
" " "	Ohio Public House 33 Niagara Boulevard	Zajac, A.	P.H. (M&W) P.H. (M)
Fort William	Empress Public House 105 Heron Street	Zaroski, W.	P.H. (M&W) P.H. (M)
" "	Wayland Public House 1019 Gore Street West	Bernardi, B.	P.H. (M&W) P.H. (M)
Gananoque	International Public House King and Main Streets	McGregor, Mrs. A. I.	P.H. (M&W) P.H. (M)
Georgetown	Exchange Public House Queen Street	Wright, Mrs. A.	P.H. (M&W) P.H. (M)
Grimsby	Grimsby Public House 30 Main Street West	Hannah, G. A.	P.H. (M&W) P.H. (M)
Haileybury	Lake Shore Public House	Boyer, E.	P.H. (M&W) P.H. (M)
Hamilton	Athletic Public House 12 Market Square	Murphy, J. J.	P.H. (M)
"	Balmoral Public House 669 King Street East	Cowan, Mrs. K.	P.H. (M&W) P.H. (M)
"	Bayview Public House 81 Stuart Street West	Senson, P.	P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
HAMILTON	Brightside Public House 909 Burlington Street East	Graham, W. B. P.	P.H. (M&W) P.H. (M)
"	British Empire Public House 373 Sherman Avenue North	Synch, D. and Lorenitis, S.	P.H. (M&W) P.H. (M)
"	Carlton Public House 659 King Street East	Berryman, F. J. and L. F.	P.H. (M&W) P.H. (M)
"	Cecil Public House 113 James Street North	Olivieri, D.	P.H. (M&W) P.H. (M)
"	Dog & Gun Public House 295 York Street	Wintonek, D. and Wicinski, J.	P.H. (M&W) P.H. (M)
"	Dundurn Public House 452 York Street	Brick, W. J.	P.H. (M&W) P.H. (M)
"	El-Mar Public House 163 Main Street West	Skingley, Mrs. F. W.	P.H. (M&W) P.H. (M)
"	Gage Public House 105 Beach Road	Krzyzan, P.	P.H. (M&W) P.H. (M)
"	Genessee Public House 468 James Street North	Sardo, L.	P.H. (M&W) P.H. (M)
"	Gladstone Public House 1385 Main Street East	Melnyczuk, D.	P.H. (M&W) P.H. (M)
"	Grand Public House 5 Gore Street	Ryan, J., Marck, K. and G.	P.H. (M&W) P.H. (M)
"	Gurry's Public House 175 Young Street	Kavanagh, D.	P.H. (M&W) P.H. (M)
"	Homeside Public House 229 Kenilworth Avenue North	Rosart, C. J. and Taylor, D.	P.H. (M&W) P.H. (M)
"	Honest Lawyer Public House 55 Mary Street	Davey, N. J.	P.H. (M&W) P.H. (M)
"	International Public House 309 James Street North	Martini, D.	P.H. (M&W) P.H. (M)
"	Kenilworth Public House 259 Kenilworth Avenue North	Walsh, V. J.	P.H. (M&W) P.H. (M)
"	Melba Public House 410 York Street	Chopik, W. P.	P.H. (M&W) P.H. (M)
"	Modjeska Public House 554 James Street North	Estate of J. J. Murphy	P.H. (M&W) P.H. (M)
"	Park Public House 476 King Street West	Lorenitis, S. and Sych, D.	P.H. (M&W) P.H. (M)
"	Piccadilly Public House 1038 Barton Street East	Hudecki, L. J. and M.	P.H. (M&W) P.H. (M)
"	Picton Public House 183 Picton Street East	Brugos, G.	P.H. (M&W) P.H. (M)
"	Royal Public House 94 McNab Street North	Labelle, R. J. and Kumpf, C. H.	P.H. (M&W) P.H. (M)
"	Savoy Public House 32 Barton Street East	Oddie, J. A.	P.H. (M&W) P.H. (M)
"	Sherman Public House 421 Sherman Avenue North	Stecyk, P.	P.H. (M&W) P.H. (M)
"	Strand Public House 262 Dundurn Street South	Shadney, P. and O. P.	P.H. (M&W) P.H. (M)
"	Terminal Public House 180 King Street East	Bach, H. C.	P.H. (M&W) P.H. (M)
"	Turbinia Public House 345 James Street North	Bencekovich, P. and Holetic, M.	P.H. (M&W) P.H. (M)
"	Vienna Public House 152 Gertrude Street	Vasileff, D.	P.H. (M&W) P.H. (M)
"	Waverley Public House 632 Barton Street East	Kisil, W.	P.H. (M&W) P.H. (M)
"	Wellington Public House 161 Wellington Street North	Donohue, J. J.	P.H. (M&W) P.H. (M)
"	Wentworth Public House 365 Wentworth Street North	Appleyard, Mrs. C.	P.H. (M&W) P.H. (M)
"	Whitmore Public House 59 McNab Street North	Whitmore Hotel Limited	P.H. (M&W) P.H. (M)
"	Wilson's Public House 388-390 York Street	Wilson, J.	P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
HAMILTON BEACH	Lakeside Public House 1151 Beach Boulevard	Perry, Miss C.	P.H. (M&W) P.H. (M)
HANNON	Plantation Public House R.R. No. 3	DeGeer, Mrs. L. A.	P.H. (M&W) P.H. (M)
HANOVER	Union Public House	Deratnay, E.	P.H. (M&W) P.H. (M)
HEIDELBERG	Olde Heidelberg Public House	Giesler, H. C.	P.H. (M&W) P.H. (M)
HIGHLAND CREEK	Highland Public House	Maxwell, W.	P.H. (M&W) P.H. (M)
HUMBER BAY	Humber Public House 63 Lakeshore Road	Estate of W. A. Taylor and J. Begley	P.H. (M&W) P.H. (M)
HUMBERSTONE	Humberstone Public House 154 Main Street	Humberstone Hotel Company Limited	P.H. (M&W) P.H. (M)
ISLINGTON	Islington Public House 4922 Dundas Street West	Estate of Mrs. E. C. McDonnall	P.H. (M&W) P.H. (M)
JORDAN	Jordan Public House	Tys, Walter	P.H. (M&W) P.H. (M)
KAPUSKASING	Plaza Public House Queen and Dallyn Streets	Godin, C. M.	P.H. (M&W) P.H. (M)
”	Sunshine Public House	Lefebvre, A.	P.H. (M)
KENORA	Dalmore Public House Main Street	Melnyk, Mrs. Eva	P.H. (M)
KINGSTON	Grand Public House 76 Princess Street	McGall, T.	P.H. (M)
”	Royal Public House 342 Princess Street	Kingston Hotel Company Ltd.	P.H. (M&W) P.H. (M)
KIRKLAND LAKE	Bellevue Public House 2 Taylor Avenue	LaPoint, R.	P.H. (M&W) P.H. (M)
” ”	Capitol Public House 60 Second Street	New Townsite Hotel Company Limited	P.H. (M&W) P.H. (M)
” ”	Federal Public House Federal and Day Streets	Rondeau, J. A.	P.H. (M&W) P.H. (M)
” ”	Link Club Public House 4 Government Road East	Lingenfelter, W. J.	P.H. (M&W) P.H. (M)
” ”	York Public House 8 Main Street	Northern Hotel (Kirkland Lake) Limited	P.H. (M&W) P.H. (M)
” ”	Union Public House 9 Main Street	Pavlakovich, F. and Mihelcic, J.	P.H. (M&W) P.H. (M)
KITCHENER	East End Public House 312 King Street East	Mihiloff, E.	P.H. (M&W) P.H. (M)
”	Grand Union Public House 130 King Street West	Wismer, A. O.	P.H. (M&W) P.H. (M)
LA SALLE	Chateau LaSalle Public House Front Road	Chateau LaSalle Limited	P.H. (M&W) P.H. (M) P.H. (W)
LEAMINGTON	Seacliffe Public House Erie Street South	Seacliffe Hotel Limited	P.H. (M&W) P.H. (M)
LINDSAY	Kent Public House 34 Lindsay Street South	Parkin, S., Muzyka, J. and Pary, W.	P.H. (M&W) P.H. (M)
LONDON	Harvey Public House 750 Hamilton Road	Vassar, A. A., J. S., and Weir, B.	P.H. (M&W) P.H. (M)
”	Oxford Public House 769 Adelaide Street	Mayor, M. J.	P.H. (M&W) P.H. (M)
”	Park Public House 920 Dundas Street	Soloway, M. and Bobrowsky, H.	P.H. (M&W) P.H. (M)
”	Queen's Public House 763 Dundas Street	Jones, J. W.	P.H. (M&W) P.H. (M)
”	St. Regis Public House 625 Dundas Street	Jacques, H. A.	P.H. (M&W) P.H. (M)
”	Wellington Public House 267 Bathurst Street	Escaf, R.	P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
Long Branch	Long Branch Public House	Wright, S. T.	P.H. (M&W) P.H. (M)
Loretto	Loretto Public House	McCabe, Mrs. M. and Wilson, W. J.	P.H. (M&W) P.H. (M)
Malden	Meadows Public House	Meadows Hotel Limited	P.H. (M&W) P.H. (M)
Malden Township	Lake Shore Public House	Kilgallin, T. V., and Ouellette, W. J.	P.H. (M&W) P.H. (M)
Matachewan	Radio Public House	Bergeron, J. C.	P.H. (M&W) P.H. (M)
McGregor	McGregor Public House	Poole, K. St. G. and Mrs. G. B.	P.H. (M&W) P.H. (M)
Merritton	Union Public House 123 Merritt Street	Hallett, Mrs. I.	P.H. (M&W) P.H. (M)
Mildmay	Station Public House	Walters, Murray F.	P.H. (M&W) P.H. (M)
Mimico	Windsor Public House 15 Vincent Street	Ryan, V. G.	P.H. (M&W) P.H. (M)
Morrisburg	Windsor Public House Lock Street	Ourderkirk, P. E.	P.H. (M&W) P.H. (M)
Mount Forest	Belmont Public House Main Street	Hallal, Chas.	P.H. (M&W) P.H. (M)
” ”	Kent Public House Main Street	Thorlby, G. E.	P.H. (M&W) P.H. (M)
Napanee	Campbell Public House Dundas Street	Luffman, M. B.	P.H. (M)
”	Queen's Public House John Street	Munroe, Mrs. M.	P.H. (M&W) P.H. (M)
Neustadt	Locust Public House	Griffiths, Mrs. E. C.	P.H. (M&W) P.H. (M)
New Hamburg	Commercial Public House	Chornolytky, W. and Lucyshyn, N.	P.H. (M&W) P.H. (M)
Niagara Falls	Belleview Public House 499 Ferguson Avenue	Distilio, A.	P.H. (M&W) P.H. (M)
” ”	Bon Villa Public House 2565 Lundy's Lane	Allen, S. L.	P.H. (M&W) P.H. (M)
” ”	Elliott Public House 573 Queen Street	Sanson, A. V.	P.H. (M&W) P.H. (M)
” ”	Empire Public House 238 Bridge Street	Stawchan, M.	P.H. (M&W) P.H. (M)
” ”	Erie Public House 356 Bridge Street	Zinkewich, M.	P.H. (M&W) P.H. (M)
” ”	Imperial Public House 290 Bridge Street	Doyle, E. J.	P.H. (M&W) P.H. (M)
” ”	Maple Leaf Public House 1831 Ferry Street	McGarry, T. W. and Rapoport, L.	P.H. (M&W) P.H. (M)
” ”	Prospect Public House 1951 Main Street	Prospect House Limited	P.H. (M&W) P.H. (M)
” ”	Royal Public House 152 Bridge Street	Vukmanich, C.	P.H. (M&W) P.H. (M)
” ”	Venetian Public House 1355 Ferry Street	Briand, J.	P.H. (M&W) P.H. (M)
Niagara-on-the-Lake	Riverside Public House	Stevens, B.	P.H. (M&W) P.H. (M)
Nipigon	International Public House Main Street	DeFazio, Mrs. M.	P.H. (M&W) P.H. (M)
”	Ovilio Public House Front and Third Streets	Gentile, D.	P.H. (M&W) P.H. (M)
North Bay	Parkview Public House 14 Oak Street West	Chirico, A.	P.H. (M&W) P.H. (M)
Norval	Hollywood Public House	Ward, Mrs. E. F.	P.H. (M&W) P.H. (M)
Oakville	Oakville Public House Navy & Colborne Streets	Gray, G. D.	P.H. (M&W) P.H. (M)
Oba	Alexander Public House	Stoyka, A.	P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
Ottawa	Capital Public House 202 Rochester Street	Antrim Hotels Limited	P.H. (M&W) P.H. (M)
"	Capitol Public House 221 Rideau Street	Weiss, B.	P.H. (M&W) P.H. (M)
"	Carleton Public House 223 Armstrong Street	Viau, J. A. P., and Starr, H. W. J.	P.H. (M&W) P.H. (M)
"	Castor Public House 451 Sussex Street	Chevrier, E.	P.H. (M)
"	Chateau Lafayette Public House 42 York Street	Bouris, J., G. and M.	P.H. (M&W) P.H. (M)
"	City Public House 46 Clarence Street	Raymond, E. J.	P.H. (M&W) P.H. (M)
"	Commercial Public House 73 York Street	Viau, E.	P.H. (M&W) P.H. (M)
"	Dominion Public House 28 York Street	Cyr, E.	P.H. (M)
"	Dunkirk Public House 64 Metcalfe Street	Dunkirk Hotel Limited	P.H. (M&W) P.H. (M)
"	Elmdale Public House 1084 Wellington Street	Estate of Ernest Laroche	P.H. (M)
"	Gilmour Public House 363 Bank Street	Gilmour Inn Limited	P.H. (M&W) P.H. (M)
"	Grad's Public House 143 Cambridge Street	Grad's Hotel (Ottawa) Limited	P.H. (M&W) P.H. (M)
"	Pacific Public House 171 Broad Street	Dore, L.	P.H. (M&W) P.H. (M)
"	Palace Public House 181 Broad Street	Viau, T.	P.H. (M&W) P.H. (M)
"	Prescott Public House 371 Preston Street	Prescott Hotel Company Ltd.	P.H. (M&W) P.H. (M)
"	Rex Public House 42 Clarence Street	Barbeau, O.	P.H. (M&W) P.H. (M)
"	Richelieu Public House 62 York Street	Lepine, Mrs. C.	P.H. (M&W) P.H. (M)
"	Ritz Public House 352 Somerset Street West	Ottawa Ritz Hotel Company Limited	P.H. (M&W) P.H. (M)
"	Royal Public House 255 Rideau Street	Davis Hotel Company Limited	P.H. (M&W) P.H. (M)
"	St. Charles Public House 200 Queen Street	St. Charles Hotel Limited	P.H. (M&W) P.H. (M)
"	Stirling Public House 123 Stirling Avenue	Stirling Hotel (Ottawa) Limited	P.H. (M&W) P.H. (M)
"	Vendome Public House 844 Somerset Street West	Kingsbury, G. R.	P.H. (M&W) P.H. (M)
"	Victoria Public House 34 Murray Street	Charos, P. G.	P.H. (M&W) P.H. (M)
Paincourt	Central Public House	King, Mrs. G.	P.H. (M&W) P.H. (M)
Paris	Canadian Public House 27 Dumfries Street	Robb, W. B., Sr.	P.H. (M&W) P.H. (M)
"	New Royal Public House 11 Mechanic Street	Hynes, J. W.	P.H. (M&W) P.H. (M)
Pembroke	Mackey Public House 185 Pembroke Street East	McCann, M. R. and Mrs. C.	P.H. (M&W) P.H. (M)
Penetanguishene	Northern Public House Main Street	Weegar, C. W., and Smart, W. E.	P.H. (M&W) P.H. (M)
Peterborough	American Public House 189 Hunter Street	Sheedy, F. K. and E. J.	P.H. (M&W) P.H. (M)
"	Montreal Public House 282 Aylmer Street	Loucks, J.	P.H. (M)
"	Windsor Public House 144 Brock Street	Johnstone, Mrs. S. M.	P.H. (M&W) P.H. (M)
Petersburg	Blue Moon Public House	Forler, H. G.	P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
PORCUPINE	Palmour Public House 12 King Street	Perla, D.	P.H. (M&W) P.H. (M)
PORT ARTHUR	Canadian Northern Public House 130 Cumberland Street South	Erikkila, I. A., and Milton, P.	P.H. (M&W) P.H. (M)
" "	Hodder Avenue Public House 479 Hodder Avenue	Sisco, J.	P.H. (M&W) P.H. (M)
" "	Lakeland Public House 84 Cumberland Street South	Domanski, J.	P.H. (M&W) P.H. (M)
" "	LaPrade Public House 102 Cumberland Street South	LaPrade, J. T.	P.H. (M&W) P.H. (M)
" "	Vendome Public House 127 Cumberland Street South	Burstrom, J. O.	P.H. (M&W) P.H. (M)
PORT COLBORNE	Colonial Public House 124 West Street	Milligan, H. F.	P.H. (M&W) P.H. (M)
" "	Gas Line Public House R.R. No. 1	White, O. W.	P.H. (M&W) P.H. (M)
" "	Ritz Public House 201 Welland Street	Conn, Mrs. O. L.	P.H. (M&W) P.H. (M)
" "	Star Public House 264 West Street	Sheppard, W. J.	P.H. (M&W) P.H. (M)
PORT DALHOUSIE	Austin Public House 16 Lock Street	Austin Hotel Limited	P.H. (M&W) P.H. (M)
PORTSMOUTH	Portsmouth Public House 402 Young Street	Beaupre, P. M.	P.H. (M&W) P.H. (M)
PUCE	Emery's Corners Public House, R.R. No. 1	Anton, J.	P.H. (M&W) P.H. (M)
RAINY RIVER	Rainy River Public House	Makarchuk, Mrs. A.	P.H. (M&W) P.H. (M)
RIDGEWAY	Ridge Inn Public House Ridge and Garrison Roads	Kisielis, A.	P.H. (M&W) P.H. (M)
RIVER CANARD	Marian Public House	Dumouchelle, Mrs. P.	P.H. (M&W) P.H. (M)
" "	Palm Beach Public House	Desjardin, Mrs. A.	P.H. (M&W) P.H. (M)
RIVERSIDE	Lauzon Stop Public House 3340 Wyandotte Street	Mandich, Geo.	P.H. (M&W) P.H. (M)
ROCKLAND	Russell Public House	Menard, F. X.	P.H. (M)
ST. AGATHA	Prince of Wales Public House	Eicheldinger, E. C., and Winterhalt, C. T.	P.H. (M&W) P.H. (M)
ST. CATHARINES	City Public House 131 King Street	Taube, O., and Cohen, B. M.	P.H. (M&W) P.H. (M)
" "	Esquire Public House 88 Queenston Street	Aitken, Mrs. M.	P.H. (M&W) P.H. (M)
" "	Franklin Public House 2 Pelham Street	Rosar, F. N.	P.H. (M&W) P.H. (M)
" "	New Statler Public House 70 James Street	LaChapelle, L. A.	P.H. (M&W) P.H. (M)
" "	Ontario Public House 244 Ontario Street	Bagdasarian, M.	P.H. (M&W) P.H. (M)
" "	York Public House 170 York Street	York (St. Catharines) Hotel Limited	P.H. (M&W) P.H. (M)
ST. CLEMENTS	St. Clements Public House Main Street	MacDermott, G.	P.H. (M&W) P.H. (M)
ST. THOMAS	Brunswick Public House 925 Talbot Street	Collins, Mrs. M.	P.H. (M&W) P.H. (M)
" "	International Public House 825 Talbot Street	Service Hotels Company Ltd.	P.H. (M&W) P.H. (M)
" "	Park Public House 93 Wilson Avenue	Cornfoot, D. H.	P.H. (M&W) P.H. (M)
" "	Queen's Public House 741 Talbot Street	Roulston, W. J.	P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
St. Thomas	Royal Public House 218 Talbot Street	Paddon, R. C.	P.H. (M&W) P.H. (M)
” ”	Taylor's Public House 701 Talbot Street	Taylor, A. A.	P.H. (M&W) P.H. (M)
” ”	Western Public House 87 St. Catharine Street	Turner, D. J. L. and Hahn, G. K.	P.H. (M&W) P.H. (M)
Saltfleet Township	Derby Public House Niagara Highway and Walter Avenue	Neichenbauer, E. and Varyu, N.	P.H. (M&W) P.H. (M)
Sandwich East	Airport Public House Walker Road and Highway No. 2	Sexton, A.	P.H. (M&W) P.H. (M)
” ”	Samson Public House 4715 Tecumseh Road	Fleming, John R.	P.H. (M&W) P.H. (M) P.H. (W)
Sandwich West	Sand Hill Public House R.R. No. 1	Bessette, H.	P.H. (M&W) P.H. (M)
Sarnia	Morden Public House 163 Front Street North	Morden, H. E.	P.H. (M&W) P.H. (M)
”	Sarnia Public House 234 Front Street North	Martin, H. D.	P.H. (M&W) P.H. (M)
Sault Ste. Marie	Central Public House 458 Queen Street East	Breton, Mrs. L.	P.H. (M&W) P.H. (M)
” ” ”	Empire Public House 196 James Street	Milkovich, V. and Sambol, J.	P.H. (M&W) P.H. (M)
” ” ”	New American Public House 602 Bay Street	Camaroli, E.	P.H. (M&W) P.H. (M)
” ” ”	Nicolet Public House 304 Albert Street West	Saari, Mrs. F. A.	P.H. (M&W) P.H. (M)
” ” ”	Victoria Public House 82 Pim Street	Chow, H.	P.H. (M&W) P.H. (M)
Scarboro	Mansion Public House 3313 Danforth Avenue	Mansion House (Toronto) Ltd.	P.H. (M&W) P.H. (M)
”	Scarboro Public House 8 Danforth Avenue	Trusler, M. S.	P.H. (M&W) P.H. (M)
Schumacher	Gold Range Public House 44 First Avenue	Svaluto, A.	P.H. (M&W) P.H. (M)
”	Recreation Public House 32 First Avenue	Bergamin, Pietre	P.H. (M&W) P.H. (M)
Simcoe	Queen's Public House 110 Robinson Street	Thompson, L. S.	P.H. (M&W) P.H. (M)
Sioux Lookout	Russell Public House 158 King Street	Ratcliffe, Robt. R.	P.H. (M&W) P.H. (M)
South Porcupine	Central Public House 84 Bruce Street	Haapala, M. and Votour, Mrs. K.	P.H. (M&W) P.H. (M)
” ”	Gold Range Public House 85 Golden Avenue	Dagenais, Mrs. Maude	P.H. (M&W) P.H. (M)
South Woodslie	Elm Public House	Ducharme, E.	P.H. (M&W) P.H. (M)
Stamford	Montrose Public House R.R. No. 2	Gambell, W. A.	P.H. (M&W) P.H. (M)
”	Queen's Public House	Lamkin, A. W.	P.H. (M&W) P.H. (M)
Stevensville	Stevensville Public House	Hawkins, E. J.	P.H. (M&W) P.H. (M)
Stoney Point	Aubin Public House	LeFaive, A.	P.H. (M&W) P.H. (M)
” ”	Stoney Point Public House	Bisnaire, J.	P.H. (M&W) P.H. (M)
Stratford	Avon Public House 388 Downie Street	Kerrigan, S. C.	P.H. (M&W) P.H. (M)
”	Dominion Public House 391 Downie Street	Wilton, R.	P.H. (M&W) P.H. (M)
Sturgeon Falls	King Edward Public House	Ghiandoni, R. G.	P.H. (M&W) P.H. (M)

Municipality	**Name of Establishment**	**Name of Owner**	**Type of Licences**
SUDBURY	Frood Public House 237 Kathleen Street	Perkovitch, N.	P.H. (M&W) P.H. (M)
"	International Public House 201 Kathleen Street	Borovich, P.	P.H. (M&W) P.H. (M)
"	Montreal Public House 70 Elm Street East	Pilon, J. H.	P.H. (M&W) P.H. (M)
"	Nickel City Public House 252 Hazel Street	Fabbro, E.	P.H. (M&W) P.H. (M)
"	Paris Public House 24 Borgia Street	Trottier, O. and Mrs. E.	P.H. (M&W) P.H. (M)
"	Prospect Public House 180 Elgin Street	Chyka, J.	P.H. (M&W) P.H. (M)
SUTTON	Sutton Public House High Street	Miller, E.	P.H. (M&W) P.H. (M)
TECUMSEH	Renaud's Public House 103 Tecumseh Road	Fraba, C.	P.H. (M&W) P.H. (M)
THOROLD	Pine Public House 141 Pine Street South	Koziulyn, J.	P.H. (M&W) P.H. (M)
"	Summit Public House 4 Front Street	Ciuniak, W. and Bruch, M.	P.H. (M&W) P.H. (M)
TILBURY	Recess Public House Queen Street	Jarkowiec, F. and Sholomicki, J.	P.H. (M&W) P.H. (M)
TIMMINS	Algoma Public House 13 Spruce Street South	Tremblay, J. A.	P.H. (M&W) P.H. (M)
"	Ambassador Public House 84 Third Avenue	Boutron, K.	P.H. (M&W) P.H. (M)
"	Balmoral Public House 10 Mount Joy Street, North	Horvat, J.	P.H. (M&W) P.H. (M)
"	Grand Public House 56 Third Avenue	Cimetta, N. and Mrs. M.	P.H. (M&W) P.H. (M)
"	International Public House 14 Cedar Street, North	Diemert, G. M.	P.H. (M&W) P.H. (M)
"	Kingston Public House 3 Third Avenue	Ursaki, P. and Irimie, V.	P.H. (M&W) P.H. (M)
"	Mount Royal Public House 13 Cedar Street, South	Curik, N. and Moskol, W.	P.H. (M&W) P.H. (M)
"	Northern Public House 106 Third Avenue	Vaillancourt, N.	P.H. (M&W) P.H. (M)
"	Riverview Public House 4 Mattagami Boulevard, South	Vaillancourt, O. and E.	P.H. (M&W) P.H. (M)
"	Russell Public House 2 Wilson Avenue	Hass, Mrs. I.	P.H. (M&W) P.H. (M)
"	Standard Public House 102 Pine Street, South	Galipeau, Mrs. E. M.	P.H. (M&W) P.H. (M)
"	Three Star Public House 13 Maple Street, North	Plut, A.	P.H. (M&W) P.H. (M)
"	Welcome Public House 7 Spruce Street, South	Denesevitch, Mrs. O. and Lavlich, L.	P.H. (M&W) P.H. (M)
TODMORDEN	Todmorden Public House 1067 Broadview Avenue	Hamer, A. and Mrs. M.	P.H. (M&W) P.H. (M)
TORONTO	Adelaide Public House 127 Simcoe Street	Sniderman, H. A.	P.H. (M&W) P.H. (M)
"	Alexandra Public House 102-4 Queen Street, West	Humeniuk, J.	P.H. (M)
"	Albany Public House 158 King Street East	Diskiw, J.	P.H. (M&W) P.H. (M)
"	Avion Public House 434 Gerrard Street, East	Campbell, W. G. and Garrity, D.	P.H. (M&W) P.H. (M)
"	Avonmore Public House 276 Jarvis Street	Torno, E.	P.H. (M) P.H. (W)
"	Baltimore Public House 90 York Street	Perille, J. L.	P.H. (M&W) P.H. (M)
"	Benlamond Public House 666 Kingston Road	Harris, Mrs. R., V. and W.	P.H. (M&W) P.H. (M)
"	Beresford Public House 250 Queen Street	Waxman, Estate of A., and Glass, M. and A.	P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
TORONTO	Beverley Public House 240 Queen Street, West	Markle, W. W.	P.H. (M&W) P.H. (M)
”	Biltonia Public House 147 Dundas Street, East	Bilton, E. E.	P.H. (M) P.H. (W)
”	Broadview Public House 106 Broadview Avenue	Dunlop, Estate of A. E.	P.H. (M&W) P.H. (M)
”	Brockton Public House 1543 Dundas Street, West	Brockton Hotel Limited	P.H. (M&W) P.H. (M)
”	Brunswick Public House 481 Bloor Street, West	Davidson, Mrs. K. C., J. C. and W. B.	P.H. (M&W) P.H. (M)
”	Cameron Public House 408 Queen Street, West	Goldstein, M.	P.H. (M&W) P.H. (M)
”	Canada Public House 134 Sherbourne Street	Wade, L. M.	P.H. (M&W) P.H. (M)
”	Claremont Public House 734 Queen Street, West	Greenbaum, J. and Campol, W.	P.H. (M&W) P.H. (M)
”	Clifton Public House 298 Queen Street, West	Bobechko, P.	P.H. (M&W) P.H. (M)
”	Clinton Public House 693 Bloor Street, West	Clinton Hotel Limited	P.H. (M&W) P.H. (M)
”	Columbia Public House 2 Ossington Avenue	Walker, W. J.	P.H. (M&W) P.H. (M)
”	Commerce Public House 154 Danforth Avenue	Walton, Mrs. F. B.	P.H. (M&W) P.H. (M)
”	Commodore Public House 2112 Danforth Avenue	Hershoran, H.	P.H. (M&W) P.H. (M)
”	Coxwell Public House 1544 Danforth Avenue	Beer, F. and Estate of Thomas Hare	P.H. (M&W) P.H. (M)
”	Dennis Public House 238 Broadview Avenue	Melnick, J.	P.H. (M&W) P.H. (M)
”	Dominion Public House 500 Queen Street, East	Shore, Mrs. A.	P.H. (M&W) P.H. (M)
”	Drake Public House 1150 Queen Street, West	Lundy, M.	P.H. (M&W) P.H. (M)
”	Duke of Connaught Public House 458 Queen Street, West	Dyba, M.	P.H. (M)
”	Duke of York Public House 1225 Queen Street, East	Perkins, F. J.	P.H. (M&W) P.H. (M)
”	Everene Public House 467 Jarvis Street	Edmonds, E.	P.H. (M&W) P.H. (M)
”	Gerrard Public House 293 Gerrard Street, East	Estate of D. W. Megaffin	P.H. (M&W) P.H. (M)
”	Good Public House 572 Bay Street	Good, Mrs. P.	P.H. (M&W) P.H. (M)
”	Graymar Public House 31 Jarvis Street	Meagher, E. J.	P.H. (M&W) P.H. (M)
”	Imperial Public House 54 Dundas Street, East	Newman, J.	P.H. (M&W) P.H. (M)
”	Jarvis Public House 103 Jarvis Street	Onrot, Mrs. B.	P.H. (M&W) P.H. (M)
”	Lansdowne Public House 1744 Dundas Street, West	Lansdowne Enterprises Limited	P.H. (M&W) P.H. (M)
”	Linsmore Public House 1298 Danforth Avenue	Bloom, M.	P.H. (M&W) P.H. (M)
”	Maple Leaf Public House 955 Gerrard Street, East	Sullivan, E. J.	P.H. (M&W) P.H. (M)
”	McCarron Public House 115 Victoria Street	McCarron, J. J.	P.H. (M&W) P.H. (M)
”	Merchant's Public House 94 Front Street, East	Harris, Mrs. A.	P.H. (M&W) P.H. (M)
”	Monarch Public House 12 Clinton Street	Worters, R.	P.H. (M&W) P.H. (M)
”	New Strathcona Public House 60 York Street	Bazar, W. and Mazurenko, D.	P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
Toronto	New Windsor Public House 124 Church Street	Mullen, J. G.	P.H. (M&W) P.H. (M)
”	Noah's Ark Public House 2777 Danforth Avenue	Convey, E. J., Jr.	P.H. (M&W) P.H. (M)
”	Palace Public House 950 King Street, West	Finnigan, Mrs. L. M.	P.H. (M&W) P.H. (M)
”	Paramount Public House 309 Spadina Avenue	Starkman, L.	P.H. (M&W) P.H. (M)
”	Parkview Public House 935 Queen Street, West	Estate of J. F. Burke	P.H. (M&W) P.H. (M)
”	Pine Tree Public House 650½ Queen Street, West	Fineberg, A.	P.H. (M&W) P.H. (M)
”	Rideau Public House 335 Jarvis Street	Fabian, P., Solski, J., Maksymonko, D., and Bilious, W.	P.H. (M) P.H. (W)
”	Riviera Public House 197 King Street, East	Mislowski, A., Earl and Dublanski, C.	P.H. (M&W) P.H. (M)
”	Rose Public House 78 Centre Avenue	Berrin, I.	P.H. (M&W) P.H. (M)
”	Rosedale Public House 1145 Yonge Street	Gendron, A. S.	P.H. (M&W) P.H. (M)
”	Royal Oak Public House 376 Dundas Street, East	Taylor, F. J., C. J., and Sharpe, R. J.	P.H. (M&W) P.H. (M)
”	Shamrock Public House 491 Gerrard Street, East	Best Hotels Limited	P.H. (M&W) P.H. (M)
”	Sheldon Public House 81 Victoria Street	Young, H. P.	P.H. (M&W) P.H. (M)
”	Simcoe Public House 508 Eastern Avenue	Fox, C. J.	P.H. (M&W) P.H. (M)
”	Stafford Public House 940 Danforth Avenue	Hotel Stafford (Toronto) Ltd.	P.H. (M&W) P.H. (M)
”	Star Public House 150 Dundas Street, West	Lamb, F., J. and Miss E.	P.H. (M&W) P.H. (M)
”	Tudor Public House 559 Sherbourne Street	Rogers, Mrs. H. E.	P.H. (M&W) P.H. (M)
”	Turf Club Public House 113 Elm Street	Turf Club Hotel Limited	P.H. (M&W) P.H. (M)
”	Tusco Public House 235 Jarvis Street	Tusco Hotel Limited	P.H. (M&W) P.H. (M)
”	Ulster Arms Public House 1345 Gerrard Street, East	Corcoran, V. W.	P.H. (M&W) P.H. (M)
”	Union Public House 71 Queen Street, West	Union Hotel Limited	P.H. (M&W) P.H. (M)
”	Wheat Sheaf Public House 667 King Street, West	Hammall, J.	P.H. (M)
”	Windermere Public House 232 Jarvis Street	Windermere Hotel (Toronto) Limited	P.H. (M) P.H. (W)
Van Wagner's Beach	Edgewater Public House	Chelar, M.	P.H. (M&W) P.H. (M)
Walkerton	Central Public House Durham Street	Gibson, Mrs. S.	P.H. (M&W) P.H. (M)
Wallaceburg	Kent Public House 450 Wallace Street	Van Watteghem, C.	P.H. (M&W) P.H. (M)
Waterdown	American Public House Dundas Street	Condon, F. E., and Stanley, Mrs. R. M.	P.H. (M&W) P.H. (M)
Waterloo	City Public House 76 King Street, South	Henning, O. R.	P.H. (M&W) P.H. (M)
Welland	Niagara Public House 258 King Street	Morabito, J.	P.H. (M&W) P.H. (M)
Welland Junction	Dain City Public House	Bouk, H. E.	P.H. (M&W) P.H. (M)
Wellesley	Queen's Public House	Logel, J.	P.H. (M&W) P.H. (M)
West Hill	West Hill Public House	Machibroda, J.	P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
WHITBY	Spruce Villa Public House	Purdy, Mrs. M.	P.H. (M&W) P.H. (M)
"	Whitby Public House 207 Dundas Street, West	Bandel, Miss M. E., L. J.	P.H. (M&W) P.H. (M)
WINDSOR	Ambassador Public House 93 Sandwich Street, East	McNamara Hotels Limited	P.H. (M&W) P.H. (M)
"	Arcade Public House 1353 Wyandotte Street, East	Kozak, J.	P.H. (M&W) P.H. (M)
"	Arlington Public House 891 Erie Street, East	Bilson, J. and Mrs. M.	P.H. (M&W) P.H. (M)
"	Baby Public House 1683 College Avenue	Baby, H.	P.H. (M&W) P.H. (M)
"	Kozak's Public House 1444 Ottawa Street	Kozak, W. J.	P.H. (M&W) P.H. (M)
"	Bellvue Public House 1271 Sandwich Street, East	Bacon, Geo.	P.H. (M&W) P.H. (M) P.H. (W)
"	Blue Water Public House 128 Windsor Avenue	Labadie, E.	P.H. (M&W) P.H. (M)
"	Border Public House 428 Wyandotte Street, East	Tenenbaum, M.	P.H. (M&W) P.H. (M) P.H. (W)
"	Bridge Avenue Public House 1886 London Street, West	Vida, M.	P.H. (M&W) P.H. (M)
"	Chippawa Public House 3404 Bloomfield Road	Laforet, E. F.	P.H. (M&W) P.H. (M)
"	Commodore Public House 25 Chatham Street, East	Commodore Hotel (Windsor) Limited	P.H. (M&W) P.H. (M)
"	Coronation Public House 1521 Sandwich Street, West	Mandich, M., and Vincetic, A.	P.H. (M&W) P.H. (M)
"	Detroit Public House 1211 Drouillard Road	Detroit Hotel Limited	P.H. (M&W) P.H. (M)
"	Dixie Public House 1080 Erie Street, East	Schiller, Mrs. E.	P.H. (M&W) P.H. (M)
"	Dominion Public House 3140 Sandwich Street, West	Boyer, W. H.	P.H. (M&W) P.H. (M)
"	Drake Public House 193 Glengarry Avenue	Uteson, M.	P.H. (M&W) P.H. (M)
"	Driving Park Public House 2105 Ouellette Avenue	Driving Park Hotel Company Limited	P.H. (M&W) P.H. (M)
"	East Windsor Public House 1214 Drouillard Road	Poitras, Mrs. B.	P.H. (M&W) P.H. (M)
"	Erie Public House 1067 Erie Street, East	Dan, Mrs. A.	P.H. (M&W) P.H. (M)
"	Essex Public House 317 Sandwich Street, West	Kovarbasich, P.	P.H. (M&W) P.H. (M)
"	Grand Central Public House 241 Sandwich Street, East	Graveline, Mrs. E.	P.H. (M&W) P.H. (M)
"	Grand Public House 531-533 Erie Street, East	Grand Hotel (Windsor)	P.H. (M&W) P.H. (M)
"	Highway Public House 592 Dougall Avenue	Heffernan, H. A.	P.H. (M&W) P.H. (M)
"	Hollywood Public House 900 Howard Avenue	Schulde, J. P.	P.H. (M&W) P.H. (M)
"	Horseshoe Public House 542 Cataraqui Street	Irvine, Mrs. M.	P.H. (M&W) P.H. (M) P.H. (W)
"	Howard Public House 1534 Howard Avenue	Mykilchuk, P.	P.H. (M&W) P.H. (M)
"	Imperial Public House 193 Sandwich Street, West	Estate of K. Lee	P.H. (M&W) P.H. (M)
"	International Public House 932 Drouillard Road	Bolohan, G. N. C.	P.H. (M&W) P.H. (M)

Municipality	Name of Establishment	Name of Owner	Type of Licences
WINDSOR	Killarney Public House 592 Victoria Avenue	Draganitz, M.	P.H. (M&W) P.H. (M) P.H. (W)
"	Lincoln Public House 443 Ouellette Avenue	Lincoln Hotel (Windsor) Ltd.	P.H. (M&W) P.H. (M) P.H. (W)
"	Maple Leaf Public House 1629 Howard Avenue	Maple Leaf Hotel (Windsor) Limited	P.H. (M&W) P.H. (M)
"	Marigold Public House 1011 Drouillard Road	Zimbalatte, Mrs. C.	P.H. (M&W) P.H. (M)
"	Martin Public House 1325 Langlois Avenue	Marksity, N., Kralovensky, A., and Yurik, A.	P.H. (M&W) P.H. (M)
"	Monarch Public House 82 Wyandotte Street, West	May, F. J., and Johnson, M.	P.H. (M&W) P.H. (M)
"	Munro Public House 95 Pitt Street, East	Rusnov, L.	P.H. (M&W) P.H. (M)
"	Ottawa Public House 943 Ottawa Street, East	Rossi, J.	P.H. (M&W) P.H. (M)
"	Palace Public House 939 Drouillard Road	Moskalyk, S. and Mrs. J.	P.H. (M&W) P.H. (M)
"	Peros Public House 1056 Wyandotte Street	Bulat, P.	P.H. (M&W) P.H. (M)
"	Rex Public House 1118 Drouillard Road	Lysy, M., and Nikon, N.	P.H. (M&W) P.H. (M)
"	Ritz Public House 93 Ouellette Avenue	McNamara Hotels Limited	P.H. (M&W) P.H. (M)
"	Royale Public House 4877 Wyandotte Street, East	Radonich, M., and Tarailo, D.	P.H. (M&W) P.H. (M)
"	Shore Acres Public House 1981 Sandwich Street, West	Sutton, H. W.	P.H. (M&W) P.H. (M)
"	Southwood Public House 1353 Wellington Avenue	Bielich, M.	P.H. (M&W) P.H. (M)
"	Star Public House 792 Gladstone Avenue	Star Hotel Company Limited	P.H. (M&W) P.H. (M)
"	Talbot Public House 581 Elm Avenue	May, F. J., and Johnson, M.	P.H. (M&W) P.H. (M)
"	Temple Public House 2756 Charles Street	Poitras, N.	P.H. (M&W) P.H. (M)
"	Victoria Public House 400 Chilver Road	Estate of F. A. Laforet	P.H. (M&W) P.H. (M)
"	Walker Public House 317 McDougall Street	Estate of John A. Smith	P.H. (M&W) P.H. (M)
"	Wellington Public House 1159 Elliott Street, West	Pelech, H.	P.H. (M&W) P.H. (M)
"	West Side Public House 623 Sandwich Street, West	Larose, A.	P.H. (M&W) P.H. (M)
"	Westwood Public House 4280 Sandwich Street, West	Reaume, E. E.	P.H. (M&W) P.H. (M) P.H. (W)
"	Windsor Public House 156 Windsor Avenue	Jean, L.	P.H. (M&W) P.H. (M)
"	Woodbine Public House 139 Goyeau Street	Stefuriac, Mrs. E. M.	P.H. (M&W) P.H. (M)
"	Wyandotte Public House 892 Wyandotte Street, East	Yarmoluk, J.	P.H. (M&W) P.H. (M)
WOODSLEE	Rochester Public House	Grymonprez, C.	P.H. (M&W) P.H. (M)
WOODSTOCK	Southside Public House 95 Victoria Street	Southside Hotel Company (Woodstock) Limited	P.H. (M&W) P.H. (M)
YORK MILLS	New Jolly Miller Public House 3885 Yonge Street	New Jolly Miller Hotel Limited	P.H. (M&W) P.H. (M)
YORK TOWNSHIP	Queensbury Public House 530 Scarlett Road	Corcoran, J. J., and Webster, H.	P.H. (M&W) P.H. (M)

Schedule No. IV

SOCIAL CLUBS

Municipality	Name of Club	Address	Type of Licences
Amherstburg	Deer Head Club	201 Dalhousie Street	P.H. (M&W) P.H. (M)
Bartonville	Glendale Golf & Country Club Limited		D.R. P.H. (M&W)
Belleville	Belleville Club Limited	210 Pinnacle Street	D.R. P.H. (M&W)
"	Belleville Shrine Club Limited	51 Highland Avenue	P.H. (M)
Billings Bridge	Ottawa Hunt & Golf Club Limited		P.H. (M&W) D.R.
Brantford	Brantford Club	98 George Street	P.H. (M) D.R.
"	Polish Alliance Friendly Society, Branch No. 10	126 Albion Street	P.H. (M&W)
"	Polish Mutual Benefit & Friendly Society	154 Pearl Street	P.H. (M&W) P.H. (M)
"	Shriners' Club of Brantford Limited	144 Dalhousie Street	P.H. (M)
Bridgeport	Grand River Golf & Country Club		D.R. P.H. (M&W) P.H. (M)
Brockville	Brockville Club	22 Court House Avenue	P.H. (M)
Chatham	Chatham Golf & Country Club	Queen Street	D.R. P.H. (M&W) P.H. (M)
"	Kent Club Corporation	155 King Street, West	D.R. P.H. (M)
Cobourg	Cobourg Golf Club Limited	919 Division Street	D.R. P.H. (M&W)
Dunnville	Dunnville Golf & Country Club Limited	R.R. No. 5	D.R. P.H. (M&W) P.H. (M)
Etobicoke	Pine Point Golf Club	200 Dee Avenue	D.R. P.H. (M&W)
"	St. George's Golf & Country Club	Royal York Road	D.R. P.H. (M&W) P.H. (M) P.H. (W)
"	Summerlea Golf & Country Club		D.R. P.H. (M&W)
Fort Erie	Niagara Racing Association of Ontario		P.H. (M&W)
Fort Erie North	Erie Downs Golf & Country Club Limited		D.R. P.H. (M&W)
Fort William	Benevolent & Protective Order of Elks, Fort William Lodge No. 82	201 North Syndicate Street	P.H. (M)
" "	Fort William Club	116 McVicar Street	D.R. P.H. (M)
" "	Fort William Country Club Limited		D.R. P.H. (M&W)
" "	Italian Club Principe di Piemonte Society	600 McLaughlin Street	P.H. (M)
Geraldton	Kenogamisis Golf Club		P.H. (M&W)

Municipality	Name of Club	Address	Type of Licences
GUELPH	Guelph Country Club Limited	Wellington Place	D.R. P.H. (M&W) P.H. (M)
”	Guelph Golf & Recreation Club Limited		D.R. P.H. (M) P.H. (W)
HAMILTON	Chedoke Golf Club	Aberdeen Avenue	D.R. P.H. (M&W)
”	Commercial Club Limited	4 Vine Street	P.H. (M)
”	Hamilton Club	6 Main Street, East	D.R. P.H. (M)
”	Hamilton Thistle Club Limited	81 Robinson Street	P.H. (M&W)
”	Hamilton Victoria Club Ltd.	568 King Street, East	P.H. (M)
”	Leander Boat Club	Foot of John Street	P.H. (M&W)
”	Royal Hamilton Yacht Club	McNab Street, North	D.R. P.H. (M&W)
HANOVER POST OFFICE	Saugeen Golf Club	Brant Township	D.R. P.H. (M&W)
HUMBER BAY	Humber Valley Golf & Tennis Club	29 Dilon Avenue	D.R. P.H. (M&W)
ISLINGTON	Islington Golf Club Limited		D.R. P.H. (M&W) P.H. (M) P.H. (W)
KENORA	Kenora Golf & Country Club Limited		D.R. P.H. (M)
KINGSTON	Kingston & Frontenac County Conservative Club	15 Montreal Street	P.H. (M)
”	Kingston Curling Club	75 Clergy Street, West	P.H. (M)
KIRKLAND LAKE	National Polish Society of Kirkland Lake	8 Wood Street	D.R. P.H. (M&W)
” ”	Kirkland Lake Golf Club Limited		D.R. P.H. (M&W) P.H. (M)
KITCHENER	Rockway Golf & Bowling Club	Rockway Drive	D.R. P.H. (M&W)
”	Westmount Golf & Country Club Limited		D.R. P.H. (M&W) P.H. (M)
”	Granite Club	69 Agnes Street	D.R. P.H. (M&W)
LAMBTON MILLS	Lambton Golf & Country Club Limited	Scarlett Road	D.R. P.H. (M&W) P.H. (M) P.H. (W)
LEASIDE	Thorncliffe Park Racing & Breeding Association Ltd.	Woodbine Park	D.R.
LONDON	Hermitage	368 Richmond Street	P.H. (M&W)
”	London Club Limited	177 Queen's Avenue	D.R. P.H. (M)
”	Marconi Club	74 Carling Street	P.H. (M)
”	Mocha Mosque	471 Waterloo Street	D.R. P.H. (M)
”	Polish National Association Limited	554 Hill Street	P.H. (M&W) P.H. (M)
NIAGARA FALLS	Niagara Falls Badminton & Tennis Club	1300 Willmott Street	D.R. P.H. (M&W)

Municipality	Name of Club	Address	Type of Licences
NIAGARA-ON-THE-LAKE	Niagara-on-the-Lake Golf Limited	Front Street	P.H. (M&W) P.H. (M) P.H. (W)
NORTH BAY	Bay Club Limited	99 Main Street, West	D.R. P.H. (M)
" "	North Bay Golf & Country Club Limited		D.R. P.H. (M&W) P.H. (M) P.H. (W)
OAKVILLE	Oakville Club Limited	Water Street	D.R. P.H. (M&W)
OSHAWA	Oshawa Golf Club Limited	Alexandra Street	D.R. P.H. (M&W) P.H. (M)
OTTAWA	Association Athletique Montagnard	693½ Somerset St., West	P.H. (M&W)
"	Bridge Club of Ottawa Limited	184 Sparks Street	P.H. (M&W)
"	Laurentian Club Incorporated	233 Metcalfe Street	D.R. P.H. (M&W)
"	L'Institut Canadien Francais d'Ottawa	123 Rideau Street	P.H. (M)
"	Rideau Club	84 Wellington Street	D.R. P.H. (M)
OVERBROOK	Rideau Lawn Tennis Club Limited		D.R. P.H. (M&W)
PAQUETTE STATION	Dominion Golf & Country Club		D.R. P.H. (M&W) P.H. (M)
PEMBROKE	Pembroke Golf Club Limited		D.R. P.H. (M&W) P.H. (M) P.H. (W)
PETERBOROUGH	Peterborough Club	126 Simcoe Street	P.H. (M)
"	Peterborough Golf & Country Club Limited	Douro Township	D.R. P.H. (M&W) P.H. (M)
POINT EDWARD	Sarnia Golf Club Limited		P.H. (M&W) P.H. (M) P.H. (W)
PORT ARTHUR	Italian Mutual Benefit Society	130-2 South Algoma Street	D.R. P.H. (M)
" "	Port Arthur Curling Club	214 Egan Street	D.R. P.H. (M&W)
" "	Shuniah Club	Public Utilities Building	P.H. (M)
" "	Port Arthur Golf & Country Club Limited	Eleventh Avenue	D.R. P.H. (M&W)
RENFREW	Renfrew Golf Club Limited	R.R. No. 3	D.R. P.H. (M&W)
RIDGEWAY	Buffalo Canoe Club	Erie Road	D.R. P.H. (M&W)
"	Cherry Hill Club Limited	Cherry Hill and Garrison Roads	D.R. P.H. (M&W)
RIVERSIDE	Riverside Yacht Club Limited	5228 Riverside Drive	D.R. P.H. (M&W)
"	Windsor Yacht Club	4400 Riverside Drive	P.H. (M&W) P.H. (M)
ST. CATHARINES	St. Catharines Golf Club Ltd.	34 Westchester Avenue	D.R. P.H. (M&W) P.H. (M)
" "	St. Catharines Club	77 Ontario Street	D.R. P.H. (M)
ST. CLAIR BEACH	Beach Grove Golf Club	R.R. No. 1, Tecumseh	D.R. P.H. (M&W)

Municipality	Name of Club	Address	Type of Licences
St. Clair Beach	Lakewood Golf Club Limited	R.R. No. 1, Tecumseh	D.R. P.H. (M&W) P.H. (M) P.H. (W)
St. Thomas	Hi-Ro Shriners' Club of Elgin	472 Talbot Street	P.H. (M)
Sandwich East	Little River Golf & Country Club	Lauzon Road	D.R. P.H. (M&W)
Sandwich West	Essex County Golf & Country Club Limited		D.R. P.H. (M) P.H. (W)
Sault Ste. Marie	Algoma Steel Men's Club	639 Bay Street	D.R. P.H. (M&W)
” ” ”	Marconi Social Club	450 Albert Street	P.H. (M)
” ” ”	Sons of Italy Grand Lodge of Ontario	Cathcart and Hudson Sts.	P.H. (M&W)
Scarboro	Cedar Brae Golf & Country Club	Markham Road	D.R. P.H. (M&W)
”	Scarboro Golf & Country Club Limited		D.R. P.H. (M&W) P.H. (M) P.H. (W)
”	Toronto Hunt Club	1355 Kingston Road	D.R. P.H. (M&W)
Scarboro Bluffs	Cliffside Golf Club		D.R. P.H. (M&W) P.H. (M) P.H. (W)
Simcoe	Norfolk Golf & Country Club Limited	Peel Street	D.R. P.H. (M&W)
”	Phoenix Club of Simcoe	51 Argyle Street	P.H. (M)
South Windsor	Roseland Golf & Country Club	Dougall Avenue	D.R. P.H. (M&W) P.H. (M)
Stratford	Stratford Country Club Limited	Romeo Street	D.R. P.H. (M&W)
Sudbury	Idylwylde Golf Club Limited		D.R. P.H. (M&W) P.H. (M)
”	Serbian Club of Sudbury Ltd.	231 Bloor Street	P.H. (M&W)
”	Sudbury Golf Club Limited		P.H. (M&W)
”	Sudbury Riding Club	703 Old Garson Road	P.H. (M&W)
Tecumseh	Shawnee Gun & Country Club	Shawnee Road	D.R. P.H. (M&W)
Toronto	Acadian Recreation Club Ltd.	1797 Danforth Avenue	P.H. (M&W) P.H. (M)
”	Albany Club of Toronto		D.R. P.H. (M)
”	Arlington Athletic Club	767 Dovercourt Road	P.H. (M&W)
”	Arts and Letters Club	14 Elm Street	D.R. P.H. (M)
”	Badminton & Racquet Club of Toronto	25 St. Clair Avenue	D.R. P.H. (M&W)
”	Boulevard Club Limited	175 Lakeshore Boulevard	D.R. P.H. (M&W)
”	Canadian Officers Club & Institute	426 University Avenue	D.R. P.H. (M)
”	Carlton Club of Toronto Ltd.	94 Hayden Street	D.R. P.H. (M&W)
”	Elm Grove Recreation & Athletic Club	1249 Queen Street West	P.H. (M&W) P.H. (M)

Municipality	Name of Club	Address	Type of Licences
Toronto	Engineers' Club of Toronto	350 Bay Street	D.R. P.H. (M)
”	Granite Club Limited	63 St. Clair Avenue	D.R. P.H. (M&W) P.H. (M) P.H. (W)
”	Law Society of Upper Canada	Osgoode Hall, 120 Queen Street, West	D.R.
”	National Club	303 Bay Street	D.R. P.H. (M)
”	Ontario Club	16 Wellington Street, West	D.R. P.H. (M)
”	Primrose Club Limited	41 Willcocks Street	D.R. P.H. (M)
”	Royal Canadian Yacht Club	Centre Island	D.R. P.H. (M&W)
”	St. Andrew's Bridge & Social Club	300½ College Street	D.R. P.H. (M)
”	Standard Athletic & Social Club	667 College Street	D.R. P.H. (M&W)
”	Toronto Club	107 Wellington St., West	D.R. P.H. (M&W)
”	Toronto Ladies' Club	2 Bloor Street, West	D.R.
”	Toronto Lawn Tennis Club	40 Rowanwood Avenue	D.R. P.H. (M&W)
”	Toronto Men's Press Club Incorporated	143 Yonge Street	P.H. (M)
”	Toronto Skating Club	568 Dupont Street	D.R. P.H. (M&W) P.H. (M) P.H. (W)
”	University Club of Toronto	380 University Avenue	D.R. P.H. (M)
”	Victoria Skating & Curling Association of Toronto Ltd.	277 Huron Street	D.R. P.H. (M)
”	York Club	135 St. George Street	D.R. P.H. (M)
Walkerton	Walkerton Golf & Country Club Limited		P.H. (M&W) P.H. (M) P.H. (W)
Waterloo	Waterloo Club Limited	34 Erb Street, East	P.H. (M)
Welland	Temple Club	268 Main Street, East	D.R. P.H. (M&W) P.H. (M)
”	Welland Club Limited	King Street	D.R. P.H. (M)
Weston	Elms Golf & Country Club	Woodbridge Road	D.R. P.H. (M)
”	Weston Golf & Country Club Limited		D.R. P.H. (M)
Windsor	Border Cities Italian Club	966 Wyandotte St., East	P.H. (M&W)
”	Border Cities Polish Canadian Club	1530 Langlois Avenue	P.H. (M&W)
”	Chrymoto Men's Club	2330 McDougall Street	D.R. P.H. (M)
”	French Canadian Club of Windsor	1253 Wyandotte St., East	P.H. (M)
”	Frontier Badminton Club (Incorporated)	4037 Riverside Drive	P.H. (M&W)
”	Frontier Social Club	454 McDougall Avenue	P.H. (M&W) P.H. (M)
”	Othmar Grotto Club	1730 Wyandotte St., East	P.H. (M&W)

Municipality	Name of Club	Address	Type of Licences
WINDSOR	Polish People's Home Association	1275 Langlois Avenue	P.H. (M&W) P.H. (M)
"	Windsor & District Hungarian Society	812 Ottawa Street	P.H. (M&W)
YORK EAST	Woodbine Golf & Country Club	O'Connor Drive and Woodbine Avenue	D.R. P.H. (M&W)
YORK MILLS	St. Andrew's Estates & Golf Club Limited	R.R. No. 1	D.R. P.H. (M)
" "	York Downs Golf & Country Club Limited		D.R. P.H. (M)
YORK NORTH	Oakdale Golf & Country Club Limited		D.R. P.H. (M&W) P.H. (M)
" "	Rosedale Golf Club	1901 Mount Pleasant Road	D.R. P.H. (M&W) P.H. (M) P.H. (W)
" "	Toronto Cricket Club	Wilson Avenue (Armour Heights)	D.R. P.H. (M&W)

SCHEDULE NO. V

VETERANS' AND LABOUR CLUBS

Municipality	Name of Club	Address	Type of Licences
AMHERSTBURG	Canadian Legion, B.E.S.L. Branch No. 157		P.H. (M)
ATIKOKAN	Canadian Legion, B.E.S.L. Branch No. 145		P.H. (M)
AYLMER	Canadian Legion, B.E.S.L. Branch No. 81	John Street, North	P.H. (M)
BELLEVILLE	Army & Navy Veterans in Canada, Unit No. 201	187 Front Street	P.H. (M)
BRANTFORD	Brantford Ex-Imperial Veterans' Social Club	117 Market Street	P.H. (M)
"	Canadian Legion, B.E.S.L. Branch No. 90	20 Colborne Street	P.H. (M)
CALEDONIA	Canadian Legion, B.E.S.L. Branch No. 154	Caithness Street	P.H. (M)
CHATHAM	Canadian Legion, B.E.S.L. Branch No. 28	29 Victoria Avenue	P.H. (M)
COBOURG	Canadian Legion, B.E.S.L. Branch No. 133	144 King Street, West	P.H. (M)
CORNWALL	Canadian Legion, B.E.S.L. Branch No. 297		P.H. (M)
DUNNVILLE	Canadian Legion, B.E.S.L. Branch No. 142	305 Queen Street, East	P.H. (M)
DRYDEN (New)	Canadian Legion, B.E.S.L. Branch No. 63		P.H. (M)
ELORA	Canadian Legion, B.E.S.L. Branch No. 229	Metcalfe Street	P.H. (M)
ESSEX	Canadian Legion, B.E.S.L. Branch No. 201	Talbot Street	P.H. (M)
FAIRBANK	Canadian Legion, B.E.S.L. Branch No. 75	31 Shortt Street	P.H. (M)
"	His Majesty's Imperial Army & Navy Veterans' Assoc.	2089 Dufferin Street	P.H. (M)
FORT ERIE	Canadan Legion, B.E.S.L. Branch No. 71	31 Bertie Street	P.H. (M)
FORT FRANCES	Canadian Legion, B.E.S.L. Branch No. 29	259 Scott Street	P.H. (M)
FORT WILLIAM	Army & Navy Veterans in Canada, Unit No. 257	141 Simpson Street	P.H. (M)
" "	Canadian Legion, B.E.S.L. Slovak Branch No. 129	800 McIntosh Street	P.H. (M)
" "	Canadian Legion, B.E.S.L. Italian Branch No. 113	534 McLaughlin Street	P.H. (M)
" "	Canadian Legion, B.E.S.L. Fort William Branch	226 South May Street	P.H. (M)
GALT	Canadian Legion, B.E.S.L. Branch No. 121	15 Walnut Street	P.H. (M)
GEORGETOWN	Canadian Legion, B.E.S.L. Branch No. 120	Mill Street	P.H. (M)
GERALDTON	Canadian Legion, B.E.S.L. Branch No. 133		P.H. (M)
GRAVENHURST	Canadian Legion, B.E.S.L. Branch No. 302	Bay Street	P.H. (M)
GUELPH	Canadian Legion, B.E.S.L. Branch No. 234	Priory Square	P.H. (M)
"	Red Chevron Club (Branch No. 4 Originals' Club)	116 Quebec Street, East	P.H. (M)
HAMILTON	Army & Navy Veterans in Canada, Unit No. 153	128 King Street, West	P.H. (M)
"	British Imperial Club	80½ James Street, North	P.H. (M)
"	Canadian Corps Association, F.S.W.W.V.	469 Bay Street, North	P.H. (M)

Municipality	Name of Club	Address	Type of Licences
HAMILTON	Canadian Legion, B.E.S.L. Branch No. 7	36 Charles Street	P.H. (M)
”	Canadian Legion, B.E.S.L. Branch No. 58	Barton & Agnes Streets	P.H. (M)
”	Canadian Pensioners' Association of the Great War (Hamilton Branch)	199 King William Street	P.H. (M)
”	Canadian Legion, B.E.S.L. Branch No. 315 (Polish Veterans)	644 Barton Street, East	P.H. (M)
”	Dominion Foundries & Steel Limited, Overseas Veterans' Association	1052 Barton Street, East	P.H. (M)
”	Firestone War Veterans' Association	1211 Cannon Street, East	P.H. (M)
”	Fourth Canadian Infantry Battalion Veterans' Association (Hamilton Branch)	12½ King Street, West	P.H. (M)
”	His Majesty's Army & Navy Veterans' Society	96 McNab Street, North	P.H. (M)
”	National Steel Car War Veterars Association	549 Kenilworth Ave., N.	P.H. (M)
”	Old Contemptibles' Association & Social Club	1002 Barton Street	P.H. (M)
”	Veterans of First Canadian Contingent Social Club of Hamilton	235½ King Street, East	P.H. (M)
”	Veterans' Service League	1473 Main Street, East	P.H. (M)
”	War Amputations of Canada Hamilton Branch	456 Mountain Park Drive	P.H. (M)
HESPELER	Canadian Legion, B.E.S.L. Branch No. 272	Queen Street, West	P.H. (M)
ISLINGTON	Canadian Legion, B.E.S.L. Branch No. 210	Bloor Street, West	P.H. (M)
KENORA	Canadian Legion, B.E.S.L. Branch No. 12	334 Second Street, South	P.H. (M)
KINGSTON	Canadian Corps Association Branch No. 120	164 Wellington Street	P.H. (M)
”	Canadian Legion, B.E.S.L. Branch No. 9	67 Princess Street	P.H. (M)
KINGSVILLE	Canadian Legion, B.E.S.L. Branch No. 188	Main Street, West	P.H. (M)
KIRKLAND LAKE	Canadian Legion, B.E.S.L. Branch No. 87	79 Government Road, West	P.H. (M)
KITCHENER	Army & Navy Veterans in Canada, Unit No. 247	33 King Street, East	P.H. (M)
”	Canadian Legion, B.E.S.L. Branch No. 50	48 Ontario Street, North	P.H. (M)
LEAMINGTON	Canadian Legion, B.E.S.L. Branch No. 84	Memorial Park	P.H. (M)
LINDSAY	Canadian Legion, B.E.S.L. Branch No. 67	12 York Street	P.H. (M)
LONDON	Air Force Association (London District)	330B Dundas Street	P.H. (M)
”	Army & Navy Veterans in Canada, Imperial Unit 229	340 York Street	P.H. (M)
”	Canadian Legion, B.E.S.L. Branch No. 2	125½ King Street	P.H. (M)
”	Canadian Legion, B.E.S.L. Branch No. 263	70 Dundas Street	P.H. (M)
”	Canadian Legion, B.E.S.L. Branch No. 279	566 Dundas Street	P.H. (M)
”	Canadian Legion, B.E.S.L. Roosevelt Branch No. 306	119½ Dundas Street	P.H. (M)
”	Originals' Club, Inc. of Ontario Branch No. 2	104 Dundas Street	P.H. (M)
”	Canadian Legion, B.E.S.L. Branch No. 317	812 Dundas Street	P.H. (M)

Municipality	Name of Club	Address	Type of Licences
Marmora	Canadian Legion, B.E.S.L. Branch No. 237		P.H. (M)
Merritton	Canadian Legion, B.E.S.L. Branch No. 138	Chestnut & Thomas Streets	P.H. (M)
Mimico	Canadian Legion, B.E.S.L. Branch No. 217	14 Drummond Avenue	P.H. (M)
Mount Dennis	Canadian Legion, B.E.S.L. Branch No. 31	1006 Weston Road	P.H. (M)
Newtonbrook	North York Veterans' Social Club Incorporated	Yonge St. and Abitibi Ave.	P.H. (M)
New Toronto	Canadian Legion, B.E.S.L. Branch No. 3	263 Seventh Street	P.H. (M)
Niagara Falls	Canadian Corps Association Unit No. 104	1657 Victoria Avenue	P.H. (M)
” ”	Canadian Legion, B.E.S.L. Branch No. 51	1347 Victoria Avenue	P.H. (M)
Niagara-on-the-Lake	Canadian Legion, B.E.S.L. Branch No. 124	King Street	P.H. (M)
Oakville	Canadian Legion, B.E.S.L. Branch No. 114	Church and Navy Streets	P.H. (M)
Oshawa	Canadian Legion, B.E.S.L. Branch No. 43	90 Centre Street	P.H. (M)
Ottawa	Canadian Legion, B.E.S.L. Branch No. 351	199 Queen Street	P.H. (M)
Paris	Canadian Legion, B.E.S.L. Branch No. 29	70 William Street	P.H. (M)
Parry Sound	Canadian Legion, B.E.S.L. Branch No. 117	James Street	P.H. (M)
Penetanguishene	Canadian Legion, B.E.S.L. Branch No. 68		P.H. (M)
Peterborough	Canadian Legion, B.E.S.L. Branch No. 52	217 Murray Street	P.H. (M)
Point Edward	Point Edward Ex-Service Men's Club	417 Michigan Avenue	P.H. (M)
Port Arthur	Canadian Legion, B.E.S.L. Branch No. 5 (Port Arthur)	244 Cooke Street	P.H. (M)
Port Colborne	Canadian Corps Association Unit No. 43	49 Kent Street	P.H. (M)
Preston	Canadian Legion, B.E.S.L. Branch No. 126	506 King Street	P.H. (M)
Rainy River	Canadian Legion, B.E.S.L. Branch No. 54	Third Street	P.H. (M)
Red Lake	Canadian Legion, B.E.S.L. Branch No. 102		P.H. (M)
Redditt	Canadian Legion, B.E.S.L. Branch No. 82		P.H. (M)
Riverside	Canadian Legion, B.E.S.L. Branch No. 255	1111 Wyandotte Street	P.H. (M)
St. Catharines	Canadian Legion, B.E.S.L. Branch No. 24	111 Church Street	P.H. (M)
” ”	Imperial Veterans' Association	15 George Street	P.H. (M)
St. Thomas	Canadian Legion, B.E.S.L. Branch No. 41	24 John Street	P.H. (M)
Sarnia	Sarnia Service Club Inc.	286 Front Street, North	P.H. (M) P.H. (M&W)
Sault Ste. Marie	Algoma Steel Workers' Club	126 Thompson Street	P.H. (M)
” ” ”	Canadian Legion, B.E.S.L. Branch No. 25	343 Queen Street, East	P.H. (M)
Scarboro	Canadian Legion, B.E.S.L. Branch No. 13	1577 Kingston Road	P.H. (M)
”	Canadian Legion, B.E.S.L. Branch No. 73	Robinson Avenue	P.H. (M)
Simcoe	Army & Navy Veterans in Canada, Unit No. 255	82 Culver Street	P.H. (M)
Simcoe	Canadian Legion, B.E.S.L. Branch No. 79	54 Metcalfe Street	P.H. (M)
Sioux Lookout	Canadian Legion, B.E.S.L. Branch No. 78	86 Front Street	P.H. (M)

Municipality	Name of Club	Address	Type of Licences
STRATFORD	Canadian Legion, B.E.S.L. Branch No. 8	207 St. Patrick Street	P.H. (M)
SUDBURY	Canadian Legion, B.E.S.L. Branch No. 76	49 Elm Street, East	P.H. (M)
TECUMSEH	Canadian Legion, B.E.S.L. Branch No. 261	213 Lesperance Road	P.H. (M)
THOROLD	Canadian Legion, B.E.S.L. Branch No. 17	3 Ormond Street	P.H. (M)
TILBURY	Canadian Legion, B.E.S.L. Branch No. 206	Queen Street	P.H. (M)
TIMMINS	Canadian Legion, B.E.S.L. Branch No. 88	17 Cedar Street South	P.H. (M)
TODMORDEN	Canadian Legion, B.E.S.L. Branch No. 10	1083 Pape Avenue	P.H. (M)
TORONTO	Canadian Corps Commissionaires	78 Church Street	P.H. (M)
"	Canadian Legion, B.E.S.L. Branch No. 1	1403 Gerrard Street, East	P.H. (M)
"	Canadian Legion, B.E.S.L. Branch No. 11	103 Coleman Avenue	P.H. (M)
"	Canadian Legion, B.E.S.L. Branch No. 42	303 Kingston Road	P.H. (M)
"	Canadian Legion, B.E.S.L. Branch No. 65	6A Greenlaw Avenue	P.H. (M)
"	Earl French Memorial Club (operated by the Citizens Repatriation League Inc.)	453 Broadview Avenue	P.H. (M)
"	Fifteenth Battalion Old Comrades' Social Club	519 Church Street	P.H. (M)
"	International Geneva Association	90 Wellington Street, West	P.H. (M)
"	Originals' Club Incoporated (Overseas 1914)	Room "F". Yonge Street Arcade	P.H. (M)
"	Royal Naval (Association) Club	290½ Yonge Street	P.H. (M)
"	Sappers' Club of Toronto	40 Murray Street	P.H. (M)
"	Scottish Club	46 King Street, East	P.H. (M)
"	Sir Arthur Currie Memorial Club (operated by the Citizens Repatriation League Incorporated)	41 Isabella Street	P.H. (M)
"	Third Battalion Toronto Regiment Club	285 Bloor Street, East	P.H. (M)
"	Toronto Black Watch Incorporated	56 Wellington Street, East	P.H. (M)
"	Toronto Disabled War Veterans' Social Club	265 Gerrard Street, East	P.H. (M)
"	Toronto Labour Lyceum Association Limited	346 Spadina Avenue	P.H. (M)
"	Twentieth Battalion Club	256 Huron Street	P.H. (M)
"	War Amputations of Canada Toronto Branch	62 St. Alban's Street	P.H. (M)
"	West End Veterans' Club (operated by the Citizens Repatriation League Incorporated)	722 College Street	P.H. (M)
WALLACEBURG	Canadian Legion, B.E.S.L. Branch No. 18	Margaret Avenue	P.H. (M)
WELLAND	Canadian Legion, B.E.S.L. Branch No. 4	275 East Main Street	P.H. (M)
WESTMOUNT	Westmount Army & Navy Club	Kingdon Street	P.H. (M)
WHITBY	Canadian Legion, B.E.S.L. Branch No. 112	Byron Street, South	P.H. (M)
WINDSOR	Army & Navy Veterans in Canada Unit No. 30	1014 Tecumseh Road East	P.H. (M)
"	Canadian Legion, B.E.S.L. Branch No. 94	36 Chatham Street, East	P.H. (M)

Municipality	Name of Club	Address	Type of Licences
WINDSOR	Canadian Legion, B.E.S.L. Branch No. 143	1880 Wyandotte St., West	P.H. (M)
"	Canadian Legion, B.E.S.L. Branch No. 12	2090 Brant Street	P.H. (M)
"	Canadian Legion, B.E.S.L. Branch No. 222	83 Sandwich Street, West	P.H. (M)
"	Canadian Pensioners' Association (Windsor Branch)	493 London Street, West	P.H. (M)
"	Polish Army Veterans' Association Post No. 126	1052 Langlois Avenue	P.H. (M)
"	Originals' Club Incorporated Branch No. 3	71 Sandwich Street, East	P.H. (M)
WOODSTOCK	Canadian Legion, B.E.S.L. Branch No. 55	Victoria and Grant Streets	P.H. (M)
YORK EAST	Canadian Legion, B.E.S.L. Branch No. 22	63 Barker Avenue	P.H. (M)
" "	Canadian Legion, B.E.S.L. Branch No. 345	9 Peard Road	P.H. (M)
YORK TOWNSHIP	Canadian Legion, B.E.S.L. Branch No. 57	351 Silverthorne Avenue	P.H. (M)
" "	Canadian Legion, B.E.S.L. Branch No. 266	3593 Dundas Street, West	P.H. (M)

SCHEDULE NO. VI

MILITARY MESSES

Municipality	Name of Unit
ANGUS	Royal Canadian Air Force, No. 13 "X" Depot
AYLMER	Royal Canadian Air Force, No. 1 Technical Training School
BARRIE	Grey & Simcoe Foresters (R) Armoury
BARRIEFIELD	A-21 C.O. and E.M.E. Training Centre
BELLEVILLE	Argyll Light Infantry, First (R) Battalion Bridge Street East
BRANTFORD	Dufferin & Haldimand Rifles of Canada Brant Avenue
BROCKVILLE	60th L.A.A. Regt. (Brockville Rifles) R.C.A. East Avenue
"	Royal Canadian Regiment, Second Battalion
CAMP BORDEN	A-19 Canadian Army Service Corps Training Centre
" "	A-33 Canadian Armoured Corps Training Establishment
" "	Camp Headquarters
" "	Canadian School of Infantry
" "	No. 15 Company, R.C.E.M.E. 15 Ordnance Depot, R.C.O.C.
" "	No. 15 Engineer Services & Works Company, Royal Canadian Engineers
" "	No. 86 Military Detention Barracks
" "	Royal Canadian Air Force, No. 2 Technical Training School
" "	Royal Canadian Army Medical Corps School
" "	Royal Canadian Army Service Corps, No. 15 District Company
" "	Second/First Armoured Regiment, Royal Canadian Dragoons
CHATHAM	Kent Regiment, Second (R) Battalion 28 William Street North
COBOURG	Thirty-Third Medium Regiment (R), Royal Canadian Artillery King Street West
CORNWALL	Stormont, Dundas & Glengarry Highlanders, Second (R) Battalion Fourth Street East
DUNDAS	102nd (R) Wentworth Field Battery, Royal Canadian Artillery King Street
ELORA	Royal Canadian Army Medical Corps, 11th Field Ambulance (R) The Armoury
FORT ERIE	Lincoln & Welland Regiment, "C" Company Main Street
FORT WILLIAM	Fort William Armouries, Men's Canteen (R) 223 North Archibald Street
GALT	Highland Light Infantry of Canada, Second (R) Battalion Mill Street
GEORGETOWN	Second (R) Battalion, The Lorne Scots (P.D. & H. Regiment) Charles Street (Agricultural Park)
GUELPH	Guelph Garrison Messes Huskisson Street
HAGERSVILLE	Central Mechanization Depot, R.C.O.C.
HAMILTON	Argyll & Sutherland Highlanders of Canada (Princess Louise's), Second Battalion (R) 200 James Street North
"	Eighth (R) Field Regiment, Royal Canadian Artillery, and 11th (R) Field Battery, Royal Canadian Artillery 200 James Street North
"	H.M.C.S. "Star" Catherine Street North
"	Royal Canadian Army Medical Corps, C.A., No. 5 (R) Field Ambulance 200 James Street North
"	Royal Canadian Army Service Corps, Second (R) Divisional Ammunition Company (C.A.) 200 James Street North
"	Royal Canadian Corps Signals, No. 3 Company "A" (R) Corps 200 James Street North
"	Royal Canadian Engineers, First (R) Field Squadron–18th Field Squadron James Street North
"	Royal Hamilton Light Infantry (W.R.), C.A., Second (R) Battalion 200 James Street North

Municipality	Name of Unit
KAPUSKASING	124th Ferry Squadron Detachment Kapuskasing Airport
KENORA	Royal Canadian Artillery, 16/17 (R) Medium Battery, R.C.A. and H.Q. 7th Medium Regiment, Royal Canadian Artillery 316 First Street North
KINGSTON	Canadian Signal Training Centre Vimy Barracks
”	Combined Messes The Armouries, Montreal Street
”	Headquarters Officers' Mess, M.D. No. 3 440 King Street West
”	H.M.C.S. "Cataraqui" 47 Wellington Street
”	Princess of Wales Own Regiment (M.G.) (R) Montreal Street
”	Royal Military College of Canada
KITCHENER	Royal Canadian Army Medical Corps, 24th Reserve Field Ambulance 87 King Street East
”	Scots Fusiliers of Canada (R) 251 King Street West
LINDSAY	45th/56th (R) Field Batteries, Royal Canadian Artillery 160 Kent Street West
LONDON	Headquarters, M.D. No. 1 Meredith Barracks, 565 Talbot Street
”	H.M.C.S. "Prevost" 433 Richmond Street
”	London Garrison Dundas Street Armouries
”	No. 1 District Depot (C.A.) Wolseley Barracks
*	2nd Squadron, 1st Canadian Infantry Division of Signals Erie Bldg., Carling Heights
”	1st (R) District Signals and 1st (R) Infantry Division Ord. Fd. Pk., R.C.O.C. 701 Talbot Street
MADOC	Hastings & Prince Edward Regiment, Second (R) Battalion, "B" Company
MOUNTAIN VIEW	Royal Canadian Air Force Air Armament School
NAPANEE	Royal Canadian Artillery, 47th (R) Field Battery Centre Street
NIAGARA FALLS	Lincoln & Welland Regiment, Second (R) Battalion, "D" Company 1049 Victoria Avenue
NORTH BAY	Algonquin Regiment Chippewa Barracks
OSHAWA	Eleventh (R) Army Tank Regiment 53 Simcoe Street North
OTTAWA	Air Force Headquarters, Officers' Mess 158 Gloucester Street
”	Cameron Highlanders of Ottawa, Second (R) Battalion Drill Hall, Cartier Square
”	Canadian Officers' Training Corps, University of Ottawa Contingent 173 Waller Street
”	Chemical Warfare Laboratories John and Sussex Streets
”	No. 5 Infantry Division Ord., Fd. Pk. 60 Queen Street
”	Fourth (R) Reconnaisance Regiment (4 P.L.D.G.) 60 Queen Street
”	Governor General's Foot Guards, Second (R) Battalion Drill Hall, Cartier Square
”	H.M.C.S. "Bytown", Naval Service Headquarters 78 Lisgar Street
”	H.M.C.S. "Carleton" Dow's Lake
”	No. 7 (R) Infantry Brigade Workshop, R.C.E.M.E. 63 Sussex Street
”	Royal Canadian Air Force Headquarters Victoria Island

Municipality	Name of Unit
OTTAWA	Department of National Defence (Air)
”	Royal Canadian Army Medical Corps, No. 23 (R) Field Ambulance 60 Queen Street
”	Royal Canadian Army Service Corps, First (R) Corps Troops 278 Sparks Street
”	Royal Canadian Army Service Corps, N.D.H.Q. Transport Company Lansdowne Park
”	Royal Canadian Artillery, 33rd (R) Field Regiment 526 St. Patrick Street
”	Royal Canadian Artillery, 51st (R) L.A.A. Battery Drill Hall, Cartier Square
”	Royal Canadian Signals, Third (R) Canadian Divisional Signals Cartier Street School Building, Cartier and McLeod Streets
”	Royal Canadian Engineers, Third (R) Field Company 59 Albert Street
”	Royal Canadian Ordnance Corps, Central Ordnance Depot, C.A. Plouffe Park
PEMBROKE	Lanark & Renfrew Scottish Regiment (Reserve) 177 Victoria Street
PENETANGUISHENE	Grey & Simcoe Foresters, "D" Company (Reserve) Main Street
PETERBOROUGH	50th H.A.A. Regiment, Prince of Wales Rangers (Peterborough Regiment) 220 Murray Street
PICTON	Hastings & Prince Edward Regiment, "C" Company, Second (R) Battalion Main Street
PORT ARTHUR	H.M.C.S. "Griffon" 125 N. Algoma Street Lake Superior Regiment, C.A., Second (R) Battalion 317 Park Street
PORT COLBORNE	Lincoln & Welland Regiment, "B" Company, Second (R) Battalion Clarence Street
PORT HOPE	Midland Regiment, Second (R) Battalion Mill Street
PRESCOTT	Brockville Rifles, Second (R) Battalion, "C" Company George Street
ROCKCLIFFE	Royal Canadian Air Force Station
ST. CATHARINES	Lincoln & Welland Regiment, C.A., Second (R) Battalion Lake Street
” ”	Tenth (R) Field Battery, Royal Canadian Artillery 75 Lake Street
ST. THOMAS	Elgin Regiment, Second (R) Battalion Wilson Avenue
SARNIA	Lambton Garrison 241 Christina Street North
SAULT STE. MARIE	Sault Ste. Marie & Sudbury Regiment C. A., Second (R) Battalion 118 Brock Street
SIMCOE	Royal Canadian Artillery, 45th (R) Norfolk Field Regiment Robinson Street
STRATFORD	Perth Regiment, Second (Reserve) Battalion (Motor) 80 Waterloo Street South
SUDBURY	Sault Ste. Marie & Sudbury Regiment, Second (R) Battalion, Sudbury Detachment 19 Grey Street
TORONTO	Toronto Military Hospital
”	Fort York Armoury, Combined Units (R) Fleet Street
”	H.M.C.S. "York" Automotive Building, Exhibition Park
”	No. 2 District Depot, C.A. (A) Exhibition Barracks, Exhibition Grounds
”	No. 2 (R) Armoured Bde. Workshop, R.C.E.M.E., C.A. 61 Albert Street
”	Royal Canadian Air Force, No. 1 Composite Training School 1107 Avenue Road
”	Royal Canadian Corps of Signals, C.A. (R) 185 Spadina Avenue
”	University Avenue Armoury, Men's Canteen (R) University Avenue Armoury

Municipality	Name of Unit
TORONTO	R.C.A.M.C. Toronto Garrison 204 St. George Street
TRENTON	Hastings & Prince Edward Regiment, Second (R) Battalion Support Company Quinte Street
"	Royal Canadian Air Force, No. 6 Repair Depot
"	Royal Canadian Air Force Station
WALKERTON	97th (R) Field Battery and 31st (R) Field Regiment, Royal Canadian Artillery Jane Street
WELLAND	Lincoln & Welland Regiment, "A" Company, Second (R) Battalion Aqueduct Street
WINDSOR	Essex Scottish Regiment, Second (R) Battalion 353 Cartier Place
"	H.M.C.S. "Hunter" 960 Ouellette Avenue
"	No. 1 (R) Infantry Bde. Workshop, R.C.E.M.E. St. Luke's Road Barracks
"	Thirtieth (Reserve) Reconnaissance Regiment (Essex Regiment) C.A.C. 357 Cartier Place
WOODSTOCK	Oxford Rifles Graham Street
YORK N. TWP.	R.C.A.F., No. 1 Equipment Depot (Weston P.O.)
" "	R.C.A.F., War Staff College Wilson Avenue, Armour Heights

SCHEDULE NO. VII

STEAMSHIPS

Municipality	Name of Steamship	Owner	Type of Licences
ST. THOMAS	S.S. "Pelee"	Pelee Shipping Co. Ltd. 4 Flora Street	D.R. P.H. (M&W)
SARNIA	S.S. "Noronic"	Canada Steamship Lines Ltd.	D.R. P.H. (M&W)
"	S.S. "North American"	Chicago, Duluth & Georgian Bay Transit Company	D.R. P.H. (M&W)
"	S.S. "South American"	Chicago, Duluth & Georgian Bay Transit Company	D.R. P.H. (M&W)
TORONTO	S.S. "Assiniboia"	Canadian Pacific Railway Co. Room 366, Union Station	D.R. P.H. (M&W)
"	S.S. "Keewatin"	Canadian Pacific Railway Co. Room 366, Union Station	D.R. P.H. (M&W)
"	S.S. "Kingston"	Canada Steamship Lines Ltd. Queen's Quay and Bay St.	D.R. P.H. (M&W)
"	S.S. "Manitoba"	Canadian Pacific Railway Co. Room 366, Union Station	D.R. P.H. (M&W)

SCHEDULE NO. VIII

ESTABLISHMENTS TRANSFERRED (34)

January 1st, 1947, to March 31st, 1947

Municipality	Name of Establishment	Transferred from	Transferred to
ALFRED	Regal Hotel	J. J. and P. Tierney	B. Lanthier and G. Seguin
ALVINSTON	Columbia Hotel	M. Huzeveka and A. Betik	A. Betik
BELLEVILLE	New Queen's Hotel 158 Front Street	J. N. Yanover	New Queens Hotel Limited
BELLE RIVER	Cooper Court Public House	Joseph De Rush	Emil Kiel
BLIND RIVER	Harmonic Hotel Woodward Avenue	Omer Laforge	Arthur and Alfred Laforge
BRANTFORD	New Benwell Public House	R. McQueen	M. L. Markovich
BRONTE	Pig & whistle Hotel	C. J. Petroff, J. Holubicki and R. Rack	C. J. Petroff, J. Holubicki and J. Tucker
COBOURG	New Royal Hotel	Estate of James M. Midgley	Mrs. Edith M. Midgley
CURREN	Curran Hotel	V. Laframboise	E. P. Duchesne
DUNNVILLE	Savoy Hotel 418 Chestnut Street	James McCorrie	Shirley Clay
FORT ERIE	Royal Hotel 1 Niagara Blvd.	Mrs. V. Uster	Piotr Stanek and John Dymon
FORT FRANCES	New Monarch Hotel Front Street	G. Pidlubny and H. Kliner	Larry Irwin
" "	Emperor Hotel 400 Front Street	G. Pidlubny	W. Kudacki and A. Bodnarczuk
" "	Rainy Lake Hotel 235 Scott Street	John J. Gray	Rainy Lake Hotel Co. Limited
HAMILTON	Gladstone Public House 1385 Main Street, East	Joseph Spencer	Dmytro Melnyczuk
KALADAR	Kaladar Hotel	Mrs. I. M. Brydson	Glenn W. Brydson
LINWOOD	Linwood Hotel	R. L. Thompson	L. Meyers
MARATHON	Everest Hotel	Harbour Heights Ltd.	Marathon Paper Mills of Canada Limited
NAPANEE	Paisley Hotel 69 John Street	E. and Mrs. J. Tyson	Mrs. Mary I. Simmons
NEW HAMBURG	King Edward Hotel Waterloo Street	C. H. Meeker	Oscar R. Henning
NIAGARA FALLS	Maple Leaf Public House 1831 Ferry Street	T. W. McGarry	T. W. McGarry and L. Rapoport
NORMAN	Norman Hotel Bay and Ontario Streets	A. Rychlo	Frederick B. Vodrey
PARIS	Hayes Hotel 26 Mechanic Street	Geo. E. Hayes	W. J. Crawford
PEMBROKE	Mackey Public House 185 Pembroke Street, East	E. R. Costin	M. R. and Mrs. C. McCann
PORT HOPE	Queen's Hotel 81 Walton Street	H. F. Overholt	Stanley Targonski
RED LAKE	McCuaig Hotel	McCuaig (Red Lake) Hotel Co. Ltd. (J. J. Gray)	McCuaig (Red Lake) Hotel Co. Ltd. (J. E. Hammell)
		(Transfer of Shares)	
SOUTH PORCUPINE	Central Public House 84 Bruce Street	Mrs. M. Cimetta	M. Haapala and Mrs. K. Votour
SUDBURY	National Tavern 477 Notre Dame Street	F. Kingsley	Joseph N. Cayen
TORONTO	Beresford Public House 250 Queen Street, East	Waxman, A., Glass, M. and A.	Estate of A. Waxman & Glass, M. and A.
"	Claremont Public House 734 Queen Street, West	F. M. Wade	Jos. Greenbaum and W. Campol
"	Dominion Public House 500 Queen Street, East	Richard A. Shore	Mrs. A. Shore
"	Edison Hotel 1 Gould Street	New Empress Hotel Company	Edison Hotel Limited

Municipality	Name of Establishment	Transferred from	Transferred to
WINDSOR	Imperial Public House 193 Sandwich Street, West	King Lee	Estate of King Lee
"	Plaza Arms Tavern 79 Pitt Street	Plaza Arms Ltd. (K. Momcilovich)	Plaza Arms Ltd. (Uros Sukunda)
		(Transfer of Shares)	

SCHEDULE NO. IX

LICENCES SUSPENDED (15)

January 1st, 1947, to March 31st, 1947

Municipality	Establishment	Owner	From	To
AMHERSTBURG	Lucier's Public House	D. Lucier	Jan. 1	Jan. 9
"	Amherst Hotel	C. W. Fleming	Feb. 6	Feb. 22
COBOCONK	Pattie Hotel	G. J. Cheney	Jan. 1	(Still in force Mar. 31/47)
CORNWALL	Carleton Public House	Mrs. M. E. Runions	Feb. 27	Mar. 13
"	Royal Hotel	Fred Lefebvre Co. Limited	Mar. 1	Mar. 8
CRYSTAL BEACH	Markcity Public House	J. Berezowsky	Jan. 1	Jan. 15
CURRAN	Curran Hotel	V. Laframboise	Jan. 1	Jan. 30
ENGLEHART	Clifton Public House	D. Korman	Jan. 1	Jan. 11
HAGERSVILLE	Commercial Hotel	C. Dubrick	Feb. 14	(Still in force Mar. 31/47)
NORMAN	Norman Hotel	A. Rychlo	Jan. 1	Feb. 17
SAULT STE. MARIE	Algoma Hotel	W. M. N. Cohen	Jan. 1	(Still in force Mar. 31/47)
SCARBORO	White Castle Inn	White Castle Inn Limited	Mar. 13	Mar. 27
STURGEON FALLS	King Edward Public House	R. G. Ghiandoni	Mar. 7	(Still in force Mar. 31/47)
WINDSOR	International Public House	G. N. C. Bolohan	Jan. 1	Jan. 6
"	Temple Public House	N. Poitras	Jan. 1	Jan. 9

SCHEDULE No. X

STATEMENT OF EXPENSES

(January 1st, 1947, to March 31st, 1947)

Salaries	$30,294.90
Rent	540.00
Equipment Rental	45.00
Travelling Expenses	10,384.05
Deputy Registrars' Remuneration	3,059.00
Superannuation	365.61
Postage	821.36
Printing and Stationery	7,348.64
Telephone and Telegraph	341.89
Light, Heat and Power	45.00
Advertising re Meetings	32.55
Miscellaneous	820.11
Maintenance—Caretaker Services	259.50
Audit Fees	750.00
TOTAL	$55,107.61

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